# SCHOOL OF DENTISTRY
## DENTAL HYGIENE
(*The Dental Hygiene curriculum is subject to change without notice.*)

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DHBS 3312</td>
<td>Histology</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DHBS 3318</td>
<td>Anatomy</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DHBS 3324</td>
<td>Immunology, Microbiology, and Molecular Biology</td>
<td>3.0 cr.</td>
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<tr>
<td>DHDD 3308</td>
<td>Oral Radiology</td>
<td>2.0 cr.</td>
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<tr>
<td>DHRE 3300</td>
<td>Dental Morphology</td>
<td>1.0 cr.</td>
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<tr>
<td>DHSD 3300</td>
<td>Periodontics 1 Lecture</td>
<td>3.0 cr.</td>
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<tr>
<td>DHYG 3308</td>
<td>Dental Hygiene Clinical Science Lecture 1</td>
<td>5.0 cr.</td>
</tr>
<tr>
<td>DHYG 3319</td>
<td>Pre-Clinical Dental Hygiene Laboratory 1</td>
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<tr>
<td>DHBS 3310</td>
<td>Pathology</td>
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</tr>
<tr>
<td>DHBS 3316</td>
<td>Pharmacology</td>
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</tr>
<tr>
<td>DHBS 3328</td>
<td>Biochemistry and Nutrition</td>
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<tr>
<td>DHSD 3302</td>
<td>Periodontics 2 Lecture</td>
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<tr>
<td>DHYG 3309</td>
<td>Dental Hygiene Patient Care Clinic 1</td>
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<tr>
<td>DHYG 3313</td>
<td>Comprehensive Patient Care Clinic A</td>
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**FIRST YEAR, Fall Semester**

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</table>
Management of the student’s patient population and comprehensive patient record keeping are emphasized.

**DHYG 3318 Dental Hygiene Clinical Science Lecture 2**  
4.0 cr.  
Prereq: DHYG 3308.  
Continuation of Clinical Science Lecture 1 with emphasis on teaching preventive behaviors and dental hygiene treatment planning.

**DHYG 3321 Pre-Clinical Dental Hygiene Laboratory 2**  
1.0 cr.  
Prereq: DHYG 3319.  
Continuation of Pre-Clinical Dental Hygiene Laboratory 1.

**FIRST YEAR, Summer Semester**

**DHYG 4400 Dental Hygiene Clinical Science Lecture 3**  
2.0 cr.  
Prereq: DHYG 3318.  
Continuation of the Clinical Science Lecture 2 with emphasis on development of advanced clinical skills including ultrasonic instrumentation, four-handed dentistry, dental specialties and information for team-building.

**DHYG 4401 Dental Hygiene Patient Care Clinic 2**  
2.0 cr.  
Prereq: DHYG 3309.  
Continuation of Patient Care Clinic 1. Patients with more advanced periodontal disease are treated.

**DHYG 4416 Pain Control**  
2.0 cr.  
The anatomy of the nerve supply to the teeth and the techniques for administration of local anesthesia and nitrous oxide analgesia. Students administer local anesthetic and nitrous oxide to their classmates as a means of practicing their skills.

**SECOND YEAR, Fall Semester**

**DHAD 4430 Oral Management of Patients with Systemic Disorder**  
2.0 cr.  
This course covers practice considerations for patients with physical, mental, or medical disabilities. Gerodontics is also emphasized.

**DHAD 4432 Community Health Programs and Issues**  
2.5 cr.  
A review of programs and skills needed by the dental hygienist to develop, implement and evaluate community health programs.

**DHRE 4400 Dental Materials Science**  
2.0 cr.  
Properties of dental materials commonly placed in the mouth and effects of manipulative variables on these materials.

**DHYG 4403 Dental Hygiene Patient Care Clinic 3**  
3.0 cr.  
Continuation of DHYG 3309 and 4401 with special emphasis on assessing, planning, implementing and evaluating care for patients with advanced periodontal disease.

**DHYG 4408 Dental Hygiene Clinical Science Lecture 4**  
2.0 cr.  
Continuation of DHYG 3308, 3318 and 4400 to round out the education experience and facilitate the transition to the work environment.

**DHYG 4411 Medical Emergencies**  
1.0 cr.  
Covers common medical emergencies and basic life support skills including CPR and the use of some emergency equipment. In addition to didactics, practical experiences will be included. Students will be recertified in CPR.

**DHYG 4417 Extramural Externship 1**  
1.0 cr.  
Direct experience in supervised practice at clinics and other settings in the community around Denver. Major focus is on the practice of dental hygiene outside of private practice.

**SECOND YEAR, Spring Semester**

**DHAD 4428 Practice Management for the Dental Team**  
2.0 cr.  
This course focuses on basic aspects of managing both dental practices and larger organizations. Topics covered include economic and financial aspects of dental practice, staff management, record systems, and team building.

**DHYG 4404 Dental Hygiene Patient Care Clinic 4**  
4.0 cr.  
Prereq: DHYG 4401.  
Continuation of Patient Care Clinic coursework.
DHYG 4409  Dental Hygiene Clinical Science Lecture 5  1.0 cr.
Prereq: DHYG 4400.
A continuation of the clinical science lecture series. This final course is designed to round out the educational experience and facilitate the transition to the work environment.

DHYG 4412  Dental Health Education  2.0 cr.
This course encompasses philosophy, structure, and implementation of dental health education programs. Organizational skills focus on behavioral objectives, content outline, educational techniques, measurements, and educational media. Students apply their knowledge by implementing dental health education in planned field experiences.

DHYG 4413  Comprehensive Patient Care Clinic B  1.0 cr.
Prereq: DHYG 3313.
Continuation of Comprehensive Patient Care Clinic A.

DHYG 4414  Contemporary Issues in Dental Hygiene  1.0 cr.
A discussion of current issues including dental practice acts, ethics, jurisprudence and malpractice which are critical to the practice of dental hygiene.

DHYG 4423  Extramural Externship 2  0.1 cr.
Direct experience in supervised practice at clinics and other settings in the community around Denver. Major focus is on the practice of dental hygiene outside of private practice.

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

FIRST YEAR, Fall Semester

DSAD 5522  Professional Decision Making in Dentistry  1.8 cr.
Decision making in four categories: development of professional; dental topics; measurement issues; applied decision making. Students are introduced to professionalism, dental history, dentistry as a career, description/disease measurement, dental problems, prevention, manpower/utilization issues, scientific thinking, and ethics/professionalism.

DSAD 5855  Independent Study  Variable cr.

DSBS 5500  Biochemistry and Human Nutrition  5.1 cr.
Deals with the chemical basis of biological organization and function. Emphasis is given to topics most directly relevant to oral health and disease.

DSBS 5504  Human Anatomy  8.9 cr.
Structure/organization of body through lecture/dissections with emphasis on head/neck that correlates with microstructure/development. Microanatomy examines microscopic structures/gross anatomy, correlating physiological/biochemical processes with information obtained by light/electron microscopy of the fine structure of tissues.

DSRE 5001  Introduction to Dentistry  3.5 cr.
To introduce the beginning dental students to the program with an overview of dental concepts and procedures.

DSRE 5500  Dental Morphology  0.6 cr.
Anatomical characteristics of the primary and permanent teeth in the human dentition, intra-arch relationships are considered in detail.

DSRE 5501  Dental Morphology Laboratory  0.6 cr.
Waxing full crowns of each tooth type to correct anatomical form, emphasizing intra-arch relationships.

DSRE 5504  Dental Materials Science 1  1.1 cr.
Basic information about materials science includes physical, chemical, mechanical, and biological properties. This information provides the background for the study of specific materials used in dentistry.

FIRST YEAR, Spring Semester

DSAD 5866  Independent Study  Variable cr.

DSBS 5503  Microbiology  4.0 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  1.9 cr.
Basic Information about the immune system; how it functions in the maintenance of health and how it can cause tissue injury.

**DSBS 5508  Physiology** 3.8 cr.
Deals with fundamentals of human physiology from basic cellular processes, such as membrane transport, to the organization and control of organ systems.

**DSBS 5514  General Pathology** 3.1 cr.
This course consists of lectures, laboratories, and discussions encompassing several basic biologic processes which interact to produce disease. These processes are considered at several levels of biologic organization ranging from clinical manifestations to molecular mechanisms.

**DSDD 5500  Infection Control** 0.5 cr.
This course reviews the fundamental principles of infection control including a focus on universal precautions, aseptic technique, methods of sterilization and regulatory issues.

**DSOP 5504  Principles of Operative Dentistry Direct Restoration 1** 1.2 cr.
This course is designed to teach students the principles of operative dentistry and the direct restoration of teeth from a problem specific approach.

**DSOP 5505  Principles of Operative Dentistry Direct Restoration 1 Lab** 1.2 cr.
This course integrates the principles of operative dentistry and direct restoration in a case-based laboratory environment.

**DSRE 5500  Dental Morphology** 0.2 cr.
Anatomical characteristics of the primary and permanent teeth in the human dentition, intra-arch relationships are considered in detail.

**DSRE 5501  Dental Morphology Laboratory** 0.2 cr.
Waxing full crowns of each tooth type to correct anatomical form, emphasizing intra-arch relationships.

**DSRE 5506  Occlusion 1** 1.1 cr.
This introductory course in articulation and occlusion deals with the principles of mandibular movement and reproducing these movements on an articulator. The various types of occlusions are considered as well as different treatment theories pertaining to occlusal philosophies.

**DSRE 5507  Occlusion 1 Laboratory** 1.1 cr.
The laboratory course includes waxing opposing dentitions to proper occlusion, obtaining intra-oral records on patient, and mounting patient models on an articulator.

**DSRE 5544  Cariology 1** 0.7 cr.
The course is intended to provide the basic science information about cariogenicity of plaque, caries etiology, nutrition, microbiological basis, patterns of progression and its relation to design for surgical treatment.

**FIRST YEAR, Summer Semester**

**DSAD 5877  Independent Study** Variable cr.

**DSBS 5516  Organ Pathology** 3.1 cr.
This course, consisting of lectures and laboratory conferences, is designed to assist the student in learning the etiology, pathogenesis, and the changes in structure and function of specific disease entities on selected organ systems pertinent to the practice of dentistry.

**DSOD 5500  Health Data Collection 1** 0.5 cr.
Designed to introduce the student to the problem-oriented dental record and to a systems approach to the collection of health data. Includes both lecture and clinical phases.

**DSOP 5506  Principles of Operative Dentistry Direct Restoration 2** 0.6 cr.
Continuation of Principles of Operative Dentistry Direct Restoration 1. Designed to teach operative dentistry from a problem specific approach.

**DSOP 5507  Principles of Operative Dentistry Direct Restoration 2 Lab** 0.6 cr.
Continuation of Principles of Operative Dentistry Direct Restoration 1 Lab. Designed to teach operative dentistry from a problem specific approach.

**DSRE 5508  Indirect Single Tooth Restoration 1** 0.6 cr.
This course in restorative dentistry teaches the treatment of lesions and defects of single teeth using indirect restorative principles and techniques. Cast gold is the restorative material taught in this course.
## SECOND YEAR, Fall Semester

**DSAD 6682 Clinical Practicum**  
This course introduces dental students to clinical activities centered on patient care.  
- **0.8 cr.**

**DSAD 6855 Independent Study**  
Variable cr.  

**DSBS 6600 Pharmacology**  
Intensive study of drugs used in dental practice with emphasis on the basic principles of drug action. Lectures and clinical correlations are employed.  
- **5.1 cr.**

**DSFD 6606 Indirect Single Tooth Restoration 3**  
Course teaches fundamental concepts, preparation, provisionalization, and restoration of single teeth with full gold crowns. Fundamental concepts, preparation and restoration of single teeth with cast gold onlays including two onlay designs, a maxillary onlay design, and a mandibular onlay design.  
- **0.8 cr.**

**DSFD 6607 Indirect Single Tooth Restoration 3 Lab**  
Laboratory experience in cavity preparation, impression procedure, gold castings, and restoration of teeth with cast gold inlays and onlays.  
- **0.8 cr.**

**DSON 6610 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.  
- **2.1 cr.**

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

**DSOT 6612 Orthodontics 2**  
Treatment planning for interceptive/corrective orthodontic procedures. Comprehensive diagnostic records taken. Lab techniques determine tooth size, arch length, mixed dentition and cephalometric analysis as well as the fabrication of fixed and removable appliances for interceptive and corrective orthodontic treatment are covered.  
- **0.5 cr.**

**DSPE 6600 Periodontics 1**  
This course is designed to make the student familiar with the normal periodontium, as well as the epidemiology, etiology and pathogenesis of periodontal disease.  
- **2.4 cr.**

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

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

**DSRP 6600 Removable Complete Prosthodontics**  
Students receive instruction about the art and science of the psychology of the elderly and the diagnosis and treatment of edentulous patients. Problems of treating geriatric patients are discussed.  
- **1.1 cr.**

**DSRP 6601 Removable Complete Prosthodontics Lab**  
Making impressions and construction of master trays, in jaw relation records bases, mounting casts on the articulator, arrangement of artificial teeth, and final waxing. Students paired for diagnosis and treatment of an edentulous patient under close faculty supervision.  
- **0.8 cr.**

## SECOND YEAR, Spring Semester

**DSAD 6604 Public Health and Community Dentistry**  
This course exposes students to the public aspects of oral health care. It identifies the significance and scope of public health programs at all levels of government and relates the public activities to the private practice of dentistry.  
- **1.6 cr.**

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

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<td>DSAD 6866</td>
<td>Independent Study</td>
<td>Variable cr.</td>
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<tr>
<td>DSEN 6610</td>
<td>Endodontics 1</td>
<td>0.8 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DSEN 6611</td>
<td>Endodontics 1 Lab</td>
<td>1.2 cr.</td>
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<td>This is a laboratory course in basic endodontics techniques utilizing extracted natural teeth as models of clinical treatment.</td>
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<td>DSFD 6610</td>
<td>Fixed Prosthodontics</td>
<td>1.0 cr.</td>
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<td>Advanced pre-clinical lecture course. Ceramic restorations are included with discussion of pontic design and manipulation of gold solder. Dowel-core fabrication for endodontically treated teeth is covered. Clinical application is stressed and study of diagnosis and treatment planning is expanded.</td>
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<tr>
<td>DSFD 6611</td>
<td>Fixed Prosthodontics Laboratory</td>
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<td></td>
<td>Continuation of Fixed Prosthodontics with emphasis on ceramic restorations and the procedures involved in fabricating fixed bridges in the anterior of appearance zone. Restorations include direct pattern fabrication of dowel-cores to build up badly broken-down or fractured teeth.</td>
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<td>DSOD 6602</td>
<td>Oral Radiology</td>
<td>2.3 cr.</td>
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<td>Designed to introduce the students to basic radiology and to provide them with the necessary practical skills in preparation for clinical dentistry.</td>
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<td>DSOD 6603</td>
<td>Oral Radiology Laboratory</td>
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<td>The laboratory is designed to provide students with the necessary practical skills in preparation for clinical dentistry.</td>
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<tr>
<td>DSON 6612</td>
<td>Oral Pathology 2</td>
<td>2.3 cr.</td>
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<td></td>
<td>This course is a continuation of Oral Pathology 1.</td>
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<tr>
<td>DSPD 6620</td>
<td>Pediatric Dentistry 1</td>
<td>2.5 cr.</td>
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<td></td>
<td>Basic principles of clinical diagnosis and treatment of the child patient are introduced. Developmental aspects of the formation of the craniofacial complex are applied to clinical management of space maintenance, pulpal, restorative, and behavior management problems.</td>
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<td>DSPE 6604</td>
<td>Periodontics 2</td>
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<td>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.</td>
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<tr>
<td>DSPE 6605</td>
<td>Periodontics 2 Laboratory</td>
<td>1.8 cr.</td>
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<td>This course runs parallel with Periodontics 2. It is devoted to teaching the clinical skills necessary for the practice of periodontics within the context of a general dental practice.</td>
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<td>DSRE 6608</td>
<td>Dental Materials Science 2</td>
<td>1.6 cr.</td>
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<td>Course introduces materials used in the practice of dentistry. Their chemistry, physical properties, and biological interaction are discussed as well as their advantages, disadvantages, and methods of clinical use.</td>
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<td>DSRE 6612</td>
<td>Occlusion 2</td>
<td>0.2 cr.</td>
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<td></td>
<td>Theory and indications treating mandibular instability with splints and equilibration. The etiology, diagnosis and treatment of occlusal trauma and mandibular dysfunction are introduced.</td>
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<tr>
<td>DSRE 6613</td>
<td>Occlusion 2 Laboratory</td>
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<td></td>
<td>The laboratory portion of this course includes fabrication of different splint types. It also introduces the principles of equilibration and applying these principles to models.</td>
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<td>DSRE 6644</td>
<td>Cariology 2</td>
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<td>The course provides didactic instruction and exercises in identifying caries, learning and evaluating detection methods. As well, the course will include identifying and correlating factors that contribute to caries, and developing programs for prevention and management to reduce identified factors.</td>
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<td>DSRP 6602</td>
<td>Removable Partial Prosthodontics</td>
<td>0.4 cr.</td>
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<tr>
<td></td>
<td>Acquaints the student with principles of removable partial prosthodontics. Includes principles of partial denture design and fabrication as they relate to preventive dentistry.</td>
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<tr>
<td>DSRP 6603</td>
<td>Removable Partial Prosthodontics Laboratory</td>
<td>0.4 cr.</td>
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<td></td>
<td>Laboratory exercises which follow lectures of principles of partial removable prosthodontics. The student should be familiar with all the necessary steps in completion of a mandibular removable partial denture.</td>
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<tr>
<td>DSSD 6600</td>
<td>Clinical Dental Pharmacology</td>
<td>0.4 cr.</td>
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<td>Integration of basic drug mechanisms with fundamentals of clinical pharmacology and patient care.</td>
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<td>DSSD 6604</td>
<td>Pain Control 1 (Local Anesthesia)</td>
<td>0.9 cr.</td>
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<td>The anatomy of the nerve supply to the teeth and associated structures is covered. The techniques for administration of local anesthesia to the maxilla and mandible are demonstrated by the faculty and performed by the student.</td>
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<td>DSSD 6608</td>
<td>Prevention and Management of Medical Emergencies</td>
<td>1.4 cr.</td>
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<td>The prevention, diagnosis, and management of medical emergencies are presented.</td>
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**SECOND YEAR, Summer Semester**

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<td>DSAD 6615</td>
<td>Comprehensive Patient Care Clinic A</td>
<td>0.6 cr.</td>
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<td>An introductory clinic for dental students. Students will provide comprehensive dental care refining technical skills, learning patient management skills in a large group practice setting.</td>
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<tr>
<td>DSAD 6877</td>
<td>Independent Study</td>
<td>Variable cr</td>
</tr>
<tr>
<td>DSAD 7713</td>
<td>Community Assessment</td>
<td>0.3 cr.</td>
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<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>
<td>DSEN 6610</td>
<td>Endodontics 1 and 2</td>
<td>1.3 cr.</td>
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<td>The course covers biology of the dental pulp and factors irritating the pulp and proper preventive measures. Endodontic procedures, such as pulp capping, pulpotomy, and pulpectomy are discussed from a biologic viewpoint. Diagnosis of pulp diseases and the relationship of clinical finding to those conditions are presented. This course is also an introduction to basic endodontic therapy. The philosophy of endodontic treatment and therapeutic techniques is discussed. Mechanisms of inflammation and repair are related to decisions in clinical practice.</td>
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<tr>
<td>DSFD 6655</td>
<td>Clinical Fixed Prosthodontics</td>
<td>Variable cr</td>
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<td>Clinical rotation in fixed prosthodontics.</td>
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<tr>
<td>DSOD 6655</td>
<td>Clinical Oral Diagnosis</td>
<td>Variable cr</td>
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<td>Clinical rotation in oral diagnosis.</td>
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<tr>
<td>DSOD 6657</td>
<td>Clinical Oral Radiology</td>
<td>0.6 cr.</td>
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<tr>
<td></td>
<td>The purpose of this course is to provide students with experience in exposing radiographs and by completing written interpretations of all radiographs. Evaluation will be on a pass/fail basis.</td>
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</tr>
<tr>
<td>DSOP 6610</td>
<td>Operative Dentistry Seminar 2</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td></td>
<td>This course will present topics on operative dentistry relative to clinic patient care. Current materials and techniques as well as a review of fundamental concepts of operative dentistry will be taught.</td>
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</tr>
<tr>
<td>DSOP 6655</td>
<td>Clinical Operative Dentistry</td>
<td>Variable cr</td>
</tr>
<tr>
<td></td>
<td>Clinical rotation in operative dentistry.</td>
<td></td>
</tr>
<tr>
<td>DSPD 6630</td>
<td>Pediatric Dentistry 2</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Introductory courses in pediatric dentistry providing foundational knowledge for subsequent participation in pediatric dentistry clinical rotations. Laboratory and didactic components provide knowledge and skills for restorative treatment during the primary, transitional, and young permanent dentition phases.</td>
<td></td>
</tr>
<tr>
<td>DSPE 6655</td>
<td>Clinical Periodontics</td>
<td>Variable cr</td>
</tr>
<tr>
<td></td>
<td>Clinical rotation in periodontics.</td>
<td></td>
</tr>
<tr>
<td>DSRE 6612</td>
<td>Occlusion 2</td>
<td>0.4 cr.</td>
</tr>
<tr>
<td></td>
<td>Theory and indications treating mandibular instability with splints and equilibration. The etiology, diagnosis and treatment of occlusal trauma and mandibular dysfunction are introduced.</td>
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</tr>
<tr>
<td>DSRE 6613</td>
<td>Occlusion 2 Laboratory</td>
<td>0.4 cr.</td>
</tr>
<tr>
<td></td>
<td>The laboratory portion of this course includes fabrication of different splint types. It also introduces the principles of equilibration and applying these principles to models.</td>
<td></td>
</tr>
<tr>
<td>DSRP 6602</td>
<td>Removable Partial Prosthodontics</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td></td>
<td>Laboratory exercises which follow lectures of principles of partial removable prosthodontics. The student should be familiar with all the necessary steps in completion of a mandibular removable partial denture.</td>
<td></td>
</tr>
</tbody>
</table>
Acquaints the student with principles of removable partial Prosthodontics. Includes principles of partial denture design and fabrication as they relate to preventive dentistry.

**DSRP 6603 Removable Partial Prosthodontics Laboratory** 0.5 cr.
Laboratory exercises which follow lectures of principles of partial removable Prosthodontics. The student should be familiar with all the necessary steps in completion of a mandibular removable partial denture.

**DSRP 6655 Clinical Removable Prosthodontics** Variable cr.
Clinical rotation in removable prosthodontics.

**DSSD 6610 Pain Control 2 (Nitrous Oxide Analgesia)** 0.9 cr.
Pharmacological indications and contraindications and prevention and treatment of complications relating to use of nitrous oxide is presented.

### THIRD YEAR, Fall Semester

**DSAD 7713 Community Assessment** 0.7 cr.
Course exposes students to community and practice structures which they may be practicing during the ACTS Program and following graduation. Students collect descriptive information about community/practice setting. Students will research, observe, and conduct informal interviewing activities at personally selected sites.

**DSAD 7717 Comprehensive Patient Care Clinic B** 0.6 cr.
Continuation of Comprehensive Patient Care Clinic A with additional emphasis on the treatment of pediatric, orthodontic, geriatric, and endodontics cases.

**DSAD 7720 Behavioral, Geriatric, and Special Dentistry** 2.6 cr.

**DSAD 7855 Independent Study** Variable cr.

**DSEN 7755 Clinical Endodontics** Variable cr.
Clinical rotation in endodontics.

**DSFD 7755 Clinical Fixed Prosthodontics** Variable cr.
Clinical rotation in fixed prosthodontics.

**DSFD 7761 Clinical Prosthodontics Seminar** 0.6 cr.
A single unit full crown procedure on a patient is performed by the student with specific time restraints and evaluation criteria. The purpose of this is to demonstrate clinical proficiency in this specific technique.

**DSOD 7716 Treatment Planning Conference 1** 0.3 cr.
Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.

**DSOD 7755 Clinical Oral Diagnosis** Variable cr.
Clinical rotation in oral diagnosis.

**DSOP 7755 Clinical Operative Dentistry** Variable cr.
Clinical rotation in operative dentistry.

**DSOS 7710 Oral and Maxillofacial Surgery** 3.0 cr.
The diagnosis and treatment of oral and maxillofacial surgical problems including techniques for extraction of teeth alveoplasty, biopsy, management of infection, treatment of maxillary and mandibular fractures, and suturing techniques.

**DSPD 7700 Pediatric Dentistry 3** 0.6 cr.
Course emphasizes diagnostic and treatment considerations for pediatric patients, including lecture materials and case presentations to facilitate a good working knowledge of treatment planning/procedures covering sedation techniques as well as traumatic injuries, hospital dentistry and medically compromised patients.

**DSPD 7755 Clinical Pediatric Dentistry** Variable cr.
Clinical rotation in pediatric dentistry.

**DSPE 7710 Periodontics 3** 0.8 cr.
Course is devoted to making the student familiar with the surgical management of periodontal disease. The indications and rationale for resection, reconstructive and mucogingival procedures are discussed.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSPE 7711</td>
<td>Periodontics 3 Laboratory</td>
<td>0.1 cr.</td>
</tr>
<tr>
<td>DSPE 7755</td>
<td>Clinical Periodontics</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSRE 7704</td>
<td>Esthetic Dentistry</td>
<td>1.4 cr.</td>
</tr>
<tr>
<td>DSRE 7712</td>
<td>Implant Dentistry</td>
<td>2.1 cr.</td>
</tr>
<tr>
<td>DSRE 7744</td>
<td>Cariology 3 – Section 1</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>DSRP 7755</td>
<td>Clinical Removable Prosthodontics</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSSD 7710</td>
<td>OroFacial Pain</td>
<td>1.2 cr.</td>
</tr>
<tr>
<td>DSSD 7712</td>
<td>Dental Pain and Emergencies</td>
<td>0.8 cr.</td>
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</tbody>
</table>

**THIRD YEAR, Spring Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DSAD 7719</td>
<td>Comprehensive Patient Care Clinic C</td>
<td>3.0 cr.</td>
</tr>
<tr>
<td>DSAD 7726</td>
<td>Dental Practice Planning</td>
<td>2.2 cr.</td>
</tr>
<tr>
<td>DSAD 7866</td>
<td>Independent Study</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSDD 7700</td>
<td>Medical Problems and Physical Assessment</td>
<td>0.7 cr.</td>
</tr>
<tr>
<td>DSDD 7702</td>
<td>Hospital Dentistry</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td>DSEN 7712</td>
<td>Endodontics 3</td>
<td>0.9 cr.</td>
</tr>
<tr>
<td>DSEN 7757</td>
<td>Clinical Endodontics</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSFD 7757</td>
<td>Clinical Fixed Prosthodontics</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSOD 7720</td>
<td>Treatment Planning Conference 2</td>
<td>0.3 cr.</td>
</tr>
</tbody>
</table>
DSOD 7722  Treatment Planning Conference 3  
Continuation of DSOD 7720.  

DSOD 7724  Diagnostic Radiology  
Basic concepts and interpretative principles for panoramic radiography, TMJ radiography, sialography, xeroradiography, and extraoral views will be presented. Additionally, advanced imaging modalities that have been made available to assist in radiologic diagnoses in dentistry will be introduced.

DSOD 7757  Clinical Oral Diagnosis  
Clinical rotation in oral diagnosis.

DSON 7755  Clinical Oncology  
One week course including lectures, seminars, tumor boards, surgery rounds, and radiation therapy conferences dealing with prevention, diagnosis, and treatment of head and neck neoplasia.

DSOP 7757  Clinical Operative Dentistry  
Clinical rotation in operative dentistry.

DSOT 7720  Orthodontics 3  
Provides students additional knowledge for clinical assessment/management of patients with orthodontic problems. Utilizes acquired knowledge from previous orthodontic courses to synthesize a general and orthodontic diagnosis, and preventive, restorative, and orthodontic treatment plan.

DSPD 7757  Clinical Pediatric Dentistry  
Clinical rotation in pediatric dentistry.

DSPE 7757  Clinical Periodontics  
Clinical rotation in periodontics.

DSRE 7844  Cariology 3 – Section 2  
Provides students with a process to track patients at risk for caries, record actual caries experience, determine caries risk assessment, plan preventive care, document treatment (surgical and non-surgical), evaluate results achieved, and modify treatment as necessary.

DSRP 7757  Clinical Removable Prosthodontics  
Clinical rotation in removable prosthodontics.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>DSAD 7721</td>
<td>Comprehensive Patient Care Clinic D</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td>DSEN 7759</td>
<td>Clinical Endodontics</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSFD 7759</td>
<td>Clinical Fixed Prosthodontics</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSOD 7759</td>
<td>Clinical Oral Diagnosis</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSOP 7759</td>
<td>Clinical Operative Dentistry</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSOT 7757</td>
<td>Clinical Orthodontics</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSPD 7759</td>
<td>Clinical Pediatric Dentistry</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSPE 7759</td>
<td>Clinical Periodontics</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSRE 7944</td>
<td>Cariology 3 – Section 3</td>
<td>0.5 cr.</td>
</tr>
</tbody>
</table>

THIRD YEAR, Summer Semester
DSRP 7759   Clinical Removable Prosthodontics 1
Clinical rotation in removable prosthodontics.

FOURTH YEAR, Fall Semester

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

0.6 cr.

DSAD 8895   Independent Study
Variable cr.

DSEN 8855   Clinical Endodontics
Clinical rotation in endodontics.

Variable cr.

DSFD 8855   Clinical Fixed Prosthodontics
Clinical rotation in fixed prosthodontics.

Variable cr.

DSFD 8861   Clinical Fixed Prosthodontics Competency Examination
A single unit partial veneer crown procedure on a patient is to be performed with specific time restraints and evaluation criteria. The purpose of this is to demonstrate clinical proficiency in this specific technique.

0.2 cr.

DSOD 8855   Clinical Oral Diagnosis
Clinical rotation in oral diagnosis.

Variable cr.

DSOP 8855   Clinical Operative Dentistry
Clinical rotation in operative dentistry.

Variable cr.

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

2.5 cr.

DSPE 8810   Periodontics 4
This course emphasizes the interrelationships of periodontics and restorative dentistry and the management of advanced periodontal pathology is discussed.

0.6 cr.

DSPE 8855   Clinical Periodontics
Clinical rotation in periodontics.

Variable cr.

DSRE 8810   Restorative Dentistry Advanced Clinical Training Service Seminar
This seminar-type course is a broad discussion of advanced restorative techniques for complex prosthodontic rehabilitation or reconstruction cases. Specific topics such as aesthetics, TMJ considerations and materials application will be included.

0.8 cr.

DSRE 8844   Cariology 4

0.5 cr.

DSRP 8855   Clinical Removable Prosthodontics
Clinical rotation in removable prosthodontics.

Variable cr.

DSSD 8855   Clinical Emergencies
The patient who presents with oral pain is evaluated and relief of discomfort is provided by the student under the supervision of the dental faculty.

1.3 cr.

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.

0.9 cr.

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.

1.8 cr.

DSAD 8827   Comprehensive Patient Care Clinic F
Continuation of advanced comprehensive patient care activities for DS 4 dental students not registered for Integrated Care Clinic Dentistry.

11.0 cr.

DSAD 8866   Independent Study
Variable cr.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSAD 8885</td>
<td>Applied Dentistry Independent Study</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSAD 8890</td>
<td>Integrated Care Clinical Dentistry</td>
<td>3.1 cr.</td>
</tr>
<tr>
<td>DSAD 8891</td>
<td>Community-Based Clinical Dentistry 1</td>
<td>3.9 cr.</td>
</tr>
<tr>
<td>DSAD 8892</td>
<td>Community-Based Clinical Dentistry 2</td>
<td>3.9 cr.</td>
</tr>
<tr>
<td>DSAD 8893</td>
<td>Community-Based Clinical Dentistry 3</td>
<td>3.9 cr.</td>
</tr>
<tr>
<td>DSAD 8894</td>
<td>Community Based Clinical Dentistry 4</td>
<td>5.0 cr.</td>
</tr>
<tr>
<td>DSEN 8810</td>
<td>Endodontics 4</td>
<td>0.3 cr.</td>
</tr>
<tr>
<td>DSOD 8820</td>
<td>Forensic Dentistry</td>
<td>0.4 cr.</td>
</tr>
<tr>
<td>DSRE 8810</td>
<td>Restorative Dentistry Advanced Clinical Training Service Seminar</td>
<td>0.8 cr.</td>
</tr>
</tbody>
</table>

**DENTAL INTERNATIONAL STUDENT PROGRAM**

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

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DSAD 8837</td>
<td>Comprehensive Patient Care Clinic G</td>
<td>11.0 cr.</td>
</tr>
<tr>
<td>DSAD 8855</td>
<td>Independent Study</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSAD 8894</td>
<td>Community Based Clinical Dentistry 4</td>
<td>5.0 cr.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DSAD 8847</td>
<td>Comprehensive Patient Care Clinic H</td>
<td>11.0 cr.</td>
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</tbody>
</table>

### FIRST YEAR, Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISP 7100</td>
<td>Restorative Preclinical Simulation</td>
<td>1.9 cr.</td>
</tr>
<tr>
<td>DISP 7101</td>
<td>Restorative Preclinical Simulation Lab</td>
<td>0.7 cr.</td>
</tr>
</tbody>
</table>

This laboratory-based course provides students with an overview of restorative techniques in a simulated clinical environment.
DISP 7102  Occlusion 1.1 cr.
Course covering principles of intra and inter-oral relationships. Course will also cover diagnosis and treatment regarding the occlusion relationship.

DISP 7103  Occlusion Lab 0.9 cr.
The laboratory portion of this course includes fabrication of different splint types. It also introduces principles of equilibration and applying these principles to models.

DISP 7105  Dental Materials 1.5 cr.
This course will highlight contemporary dental materials and address their chemical composition and clinical application.

DISP 7106  Clinical Practice Ethics 0.6 cr.
Case-based ethics discussion.

DISP 7112  Cariology 0.9 cr.
Basic knowledge about dental caries and didactic instruction and exercises in identifying caries, learning and evaluating detection methods. Additionally, identifying and correlating factors that contribute to caries, and developing programs for prevention and management to reduce identified factors.

DISP 7122  Periodontics 2 1.9 cr.
This course deals with the prevention, treatment and control of periodontal disease. Currently accepted therapies are discussed in detail. In addition, the student is taught how to evaluate new therapies which periodically become available.

DISP 7123  Periodontics 2 Lab 1.8 cr.
This course is devoted to teaching the clinical skills necessary for the practice of periodontics within the context of a general dental practice.

DISP 7124  Clinical Dental Pharmacology 0.4 cr.
Integration of basic drug mechanisms with fundamentals of clinical pharmacology and patient care.

DISP 7125  Pain Control 1 (Local Anesthesia) 0.9 cr.
The anatomy of the nerve supply to the teeth and associated structures is covered. The techniques for administration of local anesthesia to the maxilla and mandible are demonstrated by the faculty and performed by the student.

DISP 7126  Prevention and Management of Medical Emergencies 1.4 cr.
The prevention, diagnosis, and management of medical emergencies are presented.

DISP 7127  Medical Problems and Physical Assessment 0.7 cr.
This course provides competent clinical basis for assessment of patient's medical history, current status including systemic disease/physical findings. Directs student from normal interpretation/prevention to systemic pathophysiology that presents as medical emergency, allowing for proper recognition/competent medical treatment.

DISP 7128  Hospital Dentistry 0.6 cr.
This course provides an introduction to the hospital environment and the dental treatment of patients within that environment.

DISP 7129  Infection Control 0.5 cr.
This course reviews the fundamental principles of infection control including a focus on universal precautions, aseptic technique, methods of sterilization and regulatory issues.

DISP 7130  Oral Radiology 2.3 cr.
Designed to introduce the students to basic radiology and to provide them with the necessary practical skills in preparation for clinical dentistry.

DISP 7131  Oral Radiology Lab 0.5 cr.
The laboratory is designed to provide students with the necessary practical skills in preparation for clinical dentistry.

DISP 7132  Diagnostic Radiology 0.5 cr.
Basic concepts and interpretative principles for panoramic radiography, TMJ radiography, sialography, xeroradiography, and extraoral views will be presented. Additionally, advanced imaging modalities that have been made available to assist in radiologic diagnoses in dentistry will be introduced.
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<tbody>
<tr>
<td>DISP 7140</td>
<td>Pediatric Dentistry 1</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td>DISP 7160</td>
<td>Managing Your Student Practice</td>
<td>1.6 cr.</td>
</tr>
<tr>
<td>DISP 7161</td>
<td>Dental Practice Planning</td>
<td>2.2 cr.</td>
</tr>
<tr>
<td>DISP 7162</td>
<td>Public Health and Community Dentistry</td>
<td>1.6 cr.</td>
</tr>
<tr>
<td>DISP 7163</td>
<td>Fixed Prosthodontics Laboratory</td>
<td>0.7 cr.</td>
</tr>
<tr>
<td>DISP 7164</td>
<td>Comprehensive Patient Care Clinic A</td>
<td>Variable cr</td>
</tr>
<tr>
<td>DISP 7165</td>
<td>Clinical Restorative</td>
<td>Variable cr</td>
</tr>
<tr>
<td>DISP 7166</td>
<td>Endodontics</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DISP 7167</td>
<td>Endodontics Laboratory</td>
<td>0.8 cr.</td>
</tr>
<tr>
<td>DISP 7168</td>
<td>Operative Dentistry Seminar</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td>DISP 7169</td>
<td>Pain Control 2 (Nitrous Oxide Analgesia)</td>
<td>0.9 cr.</td>
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**FIRST YEAR, Summer Semester**

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<tr>
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<tr>
<td>DISP 7140</td>
<td>Pediatric Dentistry 1</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td>DISP 7160</td>
<td>Managing Your Student Practice</td>
<td>1.6 cr.</td>
</tr>
<tr>
<td>DISP 7161</td>
<td>Dental Practice Planning</td>
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<tr>
<td>DISP 7162</td>
<td>Public Health and Community Dentistry</td>
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<tr>
<td>DISP 7163</td>
<td>Fixed Prosthodontics Laboratory</td>
<td>0.7 cr.</td>
</tr>
<tr>
<td>DISP 7164</td>
<td>Comprehensive Patient Care Clinic A</td>
<td>Variable cr</td>
</tr>
<tr>
<td>DISP 7165</td>
<td>Clinical Restorative</td>
<td>Variable cr</td>
</tr>
<tr>
<td>DISP 7166</td>
<td>Endodontics</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DISP 7167</td>
<td>Endodontics Laboratory</td>
<td>0.8 cr.</td>
</tr>
<tr>
<td>DISP 7168</td>
<td>Operative Dentistry Seminar</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td>DISP 7169</td>
<td>Pain Control 2 (Nitrous Oxide Analgesia)</td>
<td>0.9 cr.</td>
</tr>
</tbody>
</table>
**FIRST YEAR, Fall Semester**

**DISP 7300  Case Presentation 2**  
1.7 cr.  
Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.

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

**DISP 7302  Clinical Restorative**  
Variable cr.  
Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/partially/fully edentulous patient needing restorative procedures. Restorative materials include amalgam, cast gold, and tooth-colored composite resins/porcelain. Emphasis on fabrication of restorations that function adequately.

**DISP 7310  Implant Dentistry**  
1.0 cr.  
Concepts and applications of tissue integrated prostheses are presented and discussed. Topics include an historical perspective of implant dentistry, surgical and prosthetic techniques, diagnosis and treatment planning analysis of current systems, qualifications and consent, and clinical applications.

**DISP 7311  Implant Dentistry Laboratory**  
1.0 cr.  
Concepts and applications of tissue integrated prostheses are presented and discussed. Topics include prosthetic techniques, diagnosis and treatment planning, analysis of current systems, qualifications and consent, and clinical applications.

**DISP 7312  Removable Complete Prosthodontics**  
1.1 cr.  
Students receive instruction about the art and science of the psychology of the elderly and the diagnosis and treatment of edentulous patients. Problems of treating geriatric patients are discussed.

**DISP 7313  Removable Complete Prosthodontics Laboratory**  
0.8 cr.  
Students are instructed in making impressions/construction of master impression trays, jaw relation records bases, mounting casts on the articulator, arrangement of artificial teeth, and final waxing. Student paired is with edentulous patient for diagnosis/treatment under faculty supervision.

**DISP 7314  Esthetic Dentistry**  
1.4 cr.  
This course is designed to present information to students about those clinical dentistry procedures or concepts which are performed primarily to enhance dental esthetics

**DISP 7315  Cariology II**  
0.5 cr.  

**DISP 7320  Oral and Maxillofacial Surgery**  
3.0 cr.  
The diagnosis and treatment of oral and maxillofacial surgical problems including techniques for extraction of teeth alveoplasty, biopsy, management of infection, treatment of maxillary and mandibular fractures, and suturing techniques.

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

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

**DISP 7221  Clinical Periodontics**  
Variable cr.  
Clinical rotation in periodontics

**DISP 7230  Clinical Oral Radiology**  
0.8 cr.  
To provide students with experience in exposing radiographs and by completing written interpretations of all radiographs.

**DISP 7231  Health Data Collection 1**  
0.6 cr.  
Designed to introduce the student to the problem-oriented dental record and to a systems approach to the collection of health data. Includes both lecture and clinical phases.

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

**DISP 7240  Pediatric Dentistry 2**  
1.0 cr.  
Basic principles of clinical diagnosis and treatment of the child patient are introduced.
This course is designed to acquaint the student with the evaluation, diagnosis, management, and pathology of the temporomandibular joint. Emphasis is on the multidisciplinary nature of treating disorders of TMJ.

DISP 7323 Dental Pain and Emergencies 0.8 cr.
This course covers the diagnostic and treatment considerations for the management of the patient in pain and other emergency problems encountered in general dentistry.

DISP 7326 Treatment Planning Conference 1 0.9 cr.
Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.

DISP 7327 Periodontics 3 Laboratory 0.1 cr.
The student is given the opportunity to practice a variety of clinical procedures. Pig mandibles are utilized for these laboratory exercises.

DISP 7328 Clinical Periodontics Variable cr.
Clinical rotation in periodontics.

DISP 7329 Clinical Endodontics Variable cr.
Clinical rotation in endodontics.

DISP 7330 Oral Pathology 1 2.1 cr.
This course is a comprehensive review of the fundamental mechanisms and general principles of oral pathology, including developmental disturbances of oral and para-oral structures, benign and malignant tumors and cysts.

DISP 7331 Clinical Oral Diagnosis Variable cr.
Clinical rotation in oral diagnosis.

DISP 7340 Pediatric Dentistry 3 0.6 cr.
Course emphasizes diagnostic/treatment considerations for pediatric patients. Lecture materials by faculty/case presentations utilized to facilitate working knowledge of treatment planning/procedures. Sedation techniques for behavior problems discussed as well as traumatic injuries, hospital dentistry and medically compromised patients.

DISP 7360 Behavioral, Geriatric, and Special Dentistry 2.6 cr.
Course teaches clinical/behavioral skills for successful dental practice including: behavioral patient management (managing fearful/anxious patients, communication skills), geriatric dental issues (psychosocial assessment, treatment planning, and clinical interventions), and special care dentistry (medical problems, disabilities, and health issues).

SECOND YEAR, Spring Semester

DISP 8100 Case Presentation 4 2.0 cr.
Patient care with development of treatment plan through presentation by student to students and faculty.

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

DISP 8102 Communication and Behavior Change 1.0 cr.

DISP 8103 Clinical Restorative Variable cr.
Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/partially/fully edentulous patient needing restorative procedures. Restorative materials include amalgam, cast gold, and tooth-colored composite resins/porcelain. Emphasis on fabrication of restorations that function adequately.

DISP 8110 Restorative Dentistry Advanced Clinical Training Service Seminar 1.6 cr.
This seminar-type course is a broad discussion of advanced restorative techniques for complex prosthodontic rehabilitation or reconstruction cases. Specific topics such as anesthetics, TNJ considerations and materials application will be included.

DISP 8120 Endodontics 3 0.9 cr.
This course addresses topics of diagnosis and management of a variety of endodontic treatment problems such as periapical pathosis, traumatic injuries, surgical intervention, and bleeding.

DISP 8121 Endodontics 4 0.3 cr.
This is an advanced course in endodontics clinical practice. Endodontic implants, autogenous transplants, advanced surgical concepts and controversies will be included.
DISP 8123  Clinical Endodontics
Clinical rotation in endodontics.  Variable cr.

DISP 8124  Clinical Periodontics
Clinical rotation in periodontics.  Variable cr.

DISP 8125  Clinical Oral Maxillofacial Surgery
This is a clinical oral surgery experience including routine and surgical removal of erupted and impacted teeth and use of intravenous sedation techniques.  2.5 cr.

DISP 8126  Treatment Planning Conference 2
Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.  0.9 cr.

DISP 8130  Clinical Oncology
An assignment of one week for students includes lectures, seminars, tumor boards, surgery rounds, and radiation therapy conferences on a health professional approach to the prevention, diagnosis, and treatment of head and neck neoplasia.  0.3 cr.

DISP 8132  Forensic Dentistry
Introductory concepts and techniques in forensic dentistry are presented and discussed.  0.4 cr.

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

DISP 8160  Dental Ethics and Jurisprudence
This course prepares students for appropriate conduct consistent with the legal and ethical principles of the dental profession. It lays the foundations for each student’s continued growth with respect to the legal and ethical obligations of professionalism.  0.9 cr.

DISP 8161  Practice Management
Understanding of basic management activities which must be continuously carried out in private practice. Primary focus on financial records, billing and collections, professional insurance, fees, clinical records, third party relations, case presentation, practice analysis, dental practice marketing, and personnel management.  1.8 cr.

DISP 8200  Case Presentation 5
Patient care with development of treatment plan through presentation by student to students and faculty.  1.4 cr.

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

DISP 8202  Clinical Restorative
Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/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. Variable cr.

DISP 8203  Special Care Clinic
Variable cr.

DISP 8220  Clinical Endodontics
Clinical rotation in endodontics. Variable cr.

DISP 8222  Clinical Periodontics
Clinical rotation in periodontics. Variable cr.

DISP 8223  Clinical Oral Maxillofacial Surgery
Clinical rotation in oral maxillofacial surgery. Variable cr.

DISP 8230  Treatment Planning Conference 3
Patient care with development of treatment plan through presentation by student to students and faculty.  0.2 cr.

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

SECOND YEAR, Summer Semester
SECOND YEAR, Fall Semester

DISP 8300  **Case Presentation 6**  1.3 cr.
Patient care with development of treatment plan through presentation by student to students and faculty.

DISP 8310  **Clinical Prosthodontics Seminar**  0.6 cr.
Students gain experience in clinical use of cast restorations. Emphasis is placed on the fabrication of restorations that are to function adequately in the patient’s biologic environment.

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

DISP 8302  **Clinical Restorative**  Variable cr.
Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/partially/fully edentulous patient needing restorative procedures. Restorative materials include amalgam, cast gold, and tooth-colored composite resins/porcelain. Emphasis on fabrication of restorations that function adequately.

DISP 8311  **Cariology III**  Variable cr.

DISP 8321  **Clinical Endodontics**  Variable cr.
Clinical rotation in endodontics.

DISP 8322  **Periodontics 4**  0.6 cr.
This course emphasizes the interrelationships of periodontics and restorative dentistry and the management of advanced periodontal pathology is discussed.

DISP 8323  **Clinical Periodontics**  Variable cr.
Clinical rotation in periodontics.

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

DISP 8350  **Orthodontics**  4.5 cr.
Early physical and emotional development of the child is presented, emphasizing prenatal and neonatal influences on the craniofacial complex. The etiology and classification of malocclusion along with the development of disturbances of hard and soft tissues are introduced.

POSTGRADUATE PERIODONTICS CERTIFICATE PROGRAM
*(The Periodontics Certificate curriculum is subject to change without notice.)*

First Year, Summer Semester

DPER 7100  **Periodontics Specialty Clinic 1**  1.3 cr.
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

DPER 7110  **Advanced Oral and Maxillofacial Radiology**  1.0 cr.
This is an advanced postdoctoral course in oral and maxillofacial radiology that includes lectures and case studies in radiation physics, radiation biology, radiation hygiene and radiographic techniques.

DPER 7111  **Advanced Periodontal Concepts**  2.0 cr.
This postdoctoral course is an intense review of periodontal procedures, in which residents are also instructed in periodontal case documentation procedures, intraoral photography, record keeping and clinical protocol.

DPER 7112  **Postgraduate Dental Implantology Seminar 1A**  1.0 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**  1.0 cr.
In this postdoctoral course, students review a variety of oral diseases and accepted methods of treatment of those as well as systemic diseases manifested in the oral cavity.
DPER 7200  Periodontics Specialty Clinic 2  4.0 cr.
Prereq: DPER 7100
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

DPER 7201  Periodontal Journal Club 1A  0.5 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  1.0 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  4.0 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  2.0 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  1.0 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  1.0 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)

DPER 7220  Research and Methodology and Biostatistics 1  2.0 cr.
This postdoctoral course is an in-depth study of scientific research methods, study design and organization, data gathering, and the biostatistical tools required to analyze the results of a study.

First Year, Spring Semester

DPER 7300  Periodontics Specialty Clinic 3  6.0 cr.
Prereq: DPER 7100, DPER 7200
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

DPER 7301  Periodontal Journal Club 1B  0.8 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  1.5 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  3.0 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 3.0 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 3.0 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 1.5 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)

DPER 7313 Occlusion and TMJ Dysfunction 1 1.5 cr.
In this postdoctoral course, the literature on the subject of occlusion is reviewed and discussed as it relates to the etiology and treatment of TMJ problems.

DPER 7320 Research Methodology and Biostatistics 2 3.0 cr.
Prereq: DPER 7220
This postdoctoral 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.

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**Second Year, Summer Semester**

DPER 8100 Periodontics Specialty Clinic 4 2.7 cr.
Prereq: DPER 7100, DPER 7200, DPER 7300
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

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

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

DPER 8113 TMJ Clinic 1A (rotation) 0.7 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 8107 Otolaryngology 1.3 cr.
This is a hospital based seminar and clinical course to familiarize the resident in patient evaluation, head and neck anatomy, and surgical procedures in the cranio-facial region.

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.

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**Second Year, Fall Semester**

DPER 8200 Periodontics Specialty Clinic 5 3.0 cr.
Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

DPER 8201 Periodontal Journal Club 2A 0.5 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 1.0 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**  
4.0 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**  
2.0 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**  
2.0 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**  
4.0 cr.  
Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. (Part 1 of two-semester course)

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

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

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

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

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

### Second Year, Spring Semester

**DPER 8300**  
**Periodontics Specialty Clinic 6**  
8.0 cr.  
Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100, DPER 8200  
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

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

**DPER 8302**  
**Periodontics Treatment Planning 2B**  
1.5 cr.  
Prereq: DPER 7202, DPER 7302, DPER 8202  
In this postdoctoral seminar course, Periodontics and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. (Part 4 of two-semester course)

**DPER 8303**  
**Periodontal Literature Review Seminar 4**  
6.0 cr.  
Prereq: DPER 7203, DPER 7303, DPER 8203  
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.
DPER 8304  Periodontal Case Presentations Seminar 2B  3.0 cr.
Prereq: DPER 7204, DPER 7304, DPER 8204
In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. (Part 2 of two-semester course)

DPER 8305  Periodontal Research 4  3.0 cr.
Prereq: DPER 7305, DPER 8105, DPER 8205
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

DPER 8306  Periodontics Clinical Teaching 1B  6.0 cr.
Prereq: DPER 8206
Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. (Part 2 of two-semester course)

DPER 8307  Minor Tooth Movement 1B  1.5 cr.
Prereq: DPER 8207
This didactic and clinical course will familiarize the resident with orthodontic procedures that can be utilized in comprehensive periodontal treatment. Clinical cases will be treated in conjunction with orthodontic residents and faculty. (Part 2 of two-semester course)

DPER 8308  Practice Management  1.5 cr.
This seminar series is designed to provide residents with an overview of the primary private practice options that they may pursue following residency training and how to evaluate various practice opportunities.

DPER 8311  Advanced Immunology/Microbiology  1.5 cr.
This postdoctoral course will review and update knowledge in the areas of microbiology and immunology relevant to homeostasis and pathology in the oral cavity.

DPER 8312  Postgraduate Dental Implantology Seminar 2B  1.5 cr.
Prereq: DPER 7112, DPER 7212, DPER 7312, DPER 8212
In this lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (Part 2 of two-semester course)

DPER 8314  Advanced Topics in Pharmacology  1.5 cr.
This is an advanced course in Pharmacology that will provide residents with a review and update of pharmacology and an understanding of applied pharmacology and patient care.

Third Year, Summer Semester

DPER 9100  Periodontics Specialty Clinic 7  4.0 cr.
Prereq: DPER7100, DPER 7200, DPER 7300, DPER 8100, DPER 8200, DPER 8300
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

DPER 9105  Periodontal Research 5  0.5 cr.
Prereq: DPER 7305, DPER 8105, DPER 8205, DPER 8305
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

DPER 9106  Periodontics Clinical Teaching 2A  4.0 cr.
Prereq: DPER 8206, DPER 8306
Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. (Part 1 of two-semester course)

DPER 9115  Advanced Diagnosis of Oral Lesions  2.0 cr.
This program in oral pathology is designed to prepare the student to recognize, analyze, and appreciate primary and secondary disease conditions of the oral and paraoral regions which may present in patients under his or her care and to respond in an appropriate manner when these conditions manifest.

Third Year, Fall Semester

DPER 9200  Periodontics Specialty Clinic 8  8.0 cr.
Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100, DPER 8200, DPER 8300, DPER 9100
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.
DPER 9201  Periodontal Journal Club 3A  
Prereq: DPER 7201, DPER 7301, DPER 8201, DPER 8301
This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be and discussed at scheduled seminars. (Part 1 of two-semester course)

DPER 9202  Periodontics Treatment Planning 3A  
Prereq: DPER 7202, DPER 7302, DPER 8202, DPER 8302
In this postdoctoral seminar course, Periodontic and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. (Part 1 of two-semester course)

DPER 9203  Periodontal Literature Review Seminar 5  
Prereq: DPER 7203, DPER 7303, DPER 8203, DPER 8303
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

DPER 9204  Periodontal Case Presentations Seminar 3A  
Prereq: DPER 7204, DPER 7304, DPER 8204, DPER 8304
In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. (Part 1 of two-semester course)

DPER 9205  Periodontal Research 6  
Prereq: DPER 7305, DPER 8105, DPER 8205, DPER 8305, DPER 9105
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

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

DPER 9209  Periodontics Specialty Elective  
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 8112, 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 implants, 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**  3.0 cr.
Prereq:  DPER 7305, DPER 8105, DPER 8205, DPER 8305, DPER 9105, DPER 9205
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DPER 9306**  **Periodontics Clinical Teaching 2C**  6.0 cr.
Prereq:  DPER 8206, DPER 8306, DPER 9106, DPER 9206
Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. (Part 3 of three-semester course)

**DPER 9309**  **Periodontics Specialty Elective**  3.0 cr.
This postdoctoral course will allow the resident to gain extra experience and to concentrate in an area of his/her choosing such as research, teaching, dental implants, periodontal plastic surgery, etc.

**DPER 9312**  **Postgraduate Dental Implantology Seminar 3B**  1.5 cr.
Prereq:  DPER 7112, DPER 7212, DPER 7312, DPER 8212, DPER 8312, DPER 9212
This lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (Part 2 of two-semester course)

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

**FIRST YEAR, Fall Semester**

**DSOR 5101**  **Orthodontics 101 – Boot Camp**  4.3 cr.
This post-doctoral course is an intense review of the breadth and scope of orthodontics including growth and development and the different clinical orthodontic modalities.

**DSOR 5102**  **Dentofacial Growth and Development 1**  2.0 cr.
This post-doctoral course is an in-depth study of human growth and development that includes basic embryology of the head and neck, growth theories and facial and dental arch changes throughout human life.

**DSOR 5103**  **Diagnosis and Treatment Planning 1**  3.0 cr.
This post-doctoral course is an in-depth study of advanced orthodontic data gathering and interpretation as used in orthodontic diagnosis and treatment planning.

**DSOR 5104**  **Biomechanics 1**  3.0 cr.
This post-doctoral course is an in-depth, advanced study of orthodontic biomechanical systems and their effect on the craniofacial and dental structures. Included in this course are the protocols required to treat both skeletal and dental malocclusions.

**DSOR 5105**  **Research Methodology and Biostatistics 1**  2.0 cr.
This post-doctoral course is an in-depth study of scientific research methods, study design and organization, data gathering, and the biostatistical tools required to analyze the results of a study.

**DSOR 5107**  **Treatment Planning 1**  3.0 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  
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSOR 5201</td>
<td>Pathology/Microanatomy Spring</td>
<td>1.2 cr.</td>
</tr>
<tr>
<td>DSOR 5202</td>
<td>Dentofacial Growth and Development 2</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td>Prereq:</td>
<td>DSORS102</td>
<td></td>
</tr>
<tr>
<td>DSOR 5203</td>
<td>Diagnosis and Treatment Planning 2</td>
<td>1.3 cr.</td>
</tr>
<tr>
<td>Prereq:</td>
<td>DSORS103</td>
<td></td>
</tr>
<tr>
<td>DSOR 5204</td>
<td>Biomechanics 2</td>
<td>5.0 cr.</td>
</tr>
<tr>
<td>Prereq:</td>
<td>DSORS104</td>
<td></td>
</tr>
<tr>
<td>DSOR 5205</td>
<td>Research Methodology &amp; Biostatistics 2</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td>Prereq:</td>
<td>DSORS105</td>
<td></td>
</tr>
<tr>
<td>DSOR 5207</td>
<td>Treatment Planning 2</td>
<td>3.8 cr.</td>
</tr>
<tr>
<td>Prereq:</td>
<td>DSORS107</td>
<td></td>
</tr>
<tr>
<td>DSOR 5208</td>
<td>Current Literature Review 2</td>
<td>1.3 cr.</td>
</tr>
<tr>
<td>Prereq:</td>
<td>DSORS108</td>
<td></td>
</tr>
<tr>
<td>DSOR 5211</td>
<td>Treatment in Preadolescent Children</td>
<td>1.0 cr.</td>
</tr>
</tbody>
</table>

FIRST YEAR, Spring Semester

FIRST YEAR, Summer Semester

DSOR 5301  Head and Neck Anatomy  
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

DSOR 5932  Clinical Orthodontics 2  
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.

**DSOR 5304  Biomechanics 3** 1.5 cr.
Prereq: DSOR5104, DSOR5204
This post-doctoral course is an in-depth, advanced study of orthodontic biomechanical systems and their effect on the craniofacial and dental structures. Included in this course are the protocols required to treat both skeletal and dental malocclusions.

**DSOR 5307  Treatment Planning 3** 2.0 cr.
Prereq: DSOR5107, DSOR 5207
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 5308  Current Literature Review 3** 0.7 cr.
Prereq: DSOR 5108, DSOR 5208
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 5311  Scientific Writing and Evaluation** 1.5 cr.
This post-doctoral course is an in-depth study of scientific writing to prepare the student to evaluate the literature as well as to prepare a scientific manuscript for publication.

**DSOR 5321  Orthognathic Surgical Treatment** 1.5 cr.
This post-doctoral course is a study of the orthognathic surgical options and treatment of patients, including distraction osteogenesis and other advances in surgical techniques.

**DSOR 5331  Management of the TMJ Patient** 0.7 cr.
This post-doctoral course is an advanced course in diagnosing and managing the patient with tempromandibular joint symptoms and dysfunction.

**DSOR 5341  Fundamentals of Teaching** 0.7 cr.
This post-doctoral course teaches the student the basics of clinical and didactic teaching to enable the student to successfully participate in the orthodontic instruction of predoctoral students and to interact and teach their non-orthodontist colleagues on completion of the program.

**DSOR 5843  Research 3** 1.7 cr.
Prereq: DSOR5841, DSOR5842
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

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

<table>
<thead>
<tr>
<th>SECOND YEAR, Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DSOR 6101  Implants in the Orthodontic Patient</strong> 1.2 cr.</td>
</tr>
<tr>
<td>This post-doctoral course is an in-depth study of the use of implants in patients both for restorative dentistry and as orthodontic anchorage.</td>
</tr>
</tbody>
</table>

**DSOR 6107  Treatment Planning 4** 3.4 cr.
Prereq: DSORS5107, DSORS5207, DSORS5307
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Postdoctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 6108  Current Literature Review 4** 1.1 cr.
Prereq: DSORS5108, DSORS5208, DSORS5308
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 6109  Orthodontic Predoctoral Laboratory Teaching 1** 0.3 cr.
This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.

**DSOR 6111  Periodontic/Orthodontic Treatment 1.2 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 6121  Genetics 2.1 cr.**
This post-doctoral course is a study of genetics and advances in genetics and the impact on the care of the orthodontic patient.

**DSOR 6844  Research 4 2.2 cr.**
Prereq: DSORS41, DSORS542, DSORS543
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 9.6 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 1.3 cr.**
Prereq: DSORS506, DSORS5206, DSORS5306, DSORS6106
This post-doctoral course is a study of dental and craniofacial anomalies and the orthodontic and surgical treatment of patients. This includes both seminars, case-based and case-presentation study.

**DSOR 6207  Treatment Planning 5 3.8 cr.**
Prereq: DSORS5107, DSORS5207, DSORS5307, DSORS6107
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 6208  Current Literature Review 5 1.3 cr.**
Prereq: DSORS5108, DSORS5208, DSORS5308, DSORS6108
Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

**DSOR 6845  Research 5 2.4 cr.**
Prereq: DSORS5841, DSORS5842, DSORS5843, DSORS6844
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 6935  Clinical Orthodontics 5 11.1 cr.**
Prereq: DSORS5931, DSORS5932, DSORS5933, DSORS6934
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**THIRD YEAR, Summer Semester**

**DSOR 7107  Treatment Planning 6 2.2 cr.**
Prereq: DSORS5107, DSORS5207, DSORS5307, DSORS6107, DSORS6207
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

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

**DSOR 7108  Current Literature Review 6**  
Prereq: DSORS108, DSORS208, DSOR 5308, DSORS6108, DSOR 6208  
0.7 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 7846  Research 6**  
Prereq: DSORS5841, DSORS5842, DSOR 5843, DSORS6844, DSOR 6845  
1.7 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 7936  Clinical Orthodontics 6**  
Prereq: DSORS5931, DSORS5932, DSOR 5933, DSORS6934, DSOR 6935  
6.4 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.

**DSOR 7207  Treatment Planning 7**  
Prereq: DSORS107, DSORS207, DSOR 5307, DSORS6107, DSOR 6207, DSORS7107  
2.8 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 7208  Current Literature Review 7**  
Prereq: DSORS5108, DSORS5208, DSOR 5308, DSORS6108, DSOR 6208, DSORS7108  
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 7209  Orthodontic Predoctoral Laboratory Teaching 2**  
0.3 cr.  
This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.

**DSOR 7212  Orthodontic Clinical Teaching 3**  
1.1 cr.  
This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.

**DSOR 7847  Research 7**  
Prereq: DSORS5841, DSORS5842, DSOR 5843, DSORS6844, DSOR 6845, DSORS7846  
1.7 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 7937  Clinical Orthodontics 7**  
Prereq: DSORS5931, DSORS5932, DSOR 5933, DSORS6934, DSOR 6935, DSORS7936  
8.2 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.

**DSOR 7939  Clinical Problems 2**  
1.0 cr.  
Course is a case-based course to study clinical problems encountered in the practice of orthodontics by the orthodontic specialist. It requires the student to analyze and then present the records of patients who encountered less than ideal results during treatment.

**THIRD YEAR, Fall Semester**

**DSOR 7207  Treatment Planning 7**  
Prereq: DSORS107, DSORS207, DSOR 5307, DSORS6107, DSOR 6207, DSORS7107  
2.8 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 7208  Current Literature Review 7**  
Prereq: DSORS5108, DSORS5208, DSOR 5308, DSORS6108, DSOR 6208, DSORS7108  
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 7209  Orthodontic Predoctoral Laboratory Teaching 2**  
0.3 cr.  
This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.

**DSOR 7212  Orthodontic Clinical Teaching 3**  
1.1 cr.  
This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.

**DSOR 7847  Research 7**  
Prereq: DSORS5841, DSORS5842, DSOR 5843, DSORS6844, DSOR 6845, DSORS7846  
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