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

### FIRST YEAR, Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</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>
</tr>
<tr>
<td>DHDD 3308</td>
<td>Oral Radiology</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DHRE 3300</td>
<td>Dental Morphology</td>
<td>1.0 cr.</td>
</tr>
<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>
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<tr>
<td>DHYG 3319</td>
<td>Pre-Clinical Dental Hygiene Laboratory 1</td>
<td>1.0 cr.</td>
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### FIRST YEAR, Spring Semester

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<tr>
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<tbody>
<tr>
<td>DHBS 3310</td>
<td>Pathology</td>
<td>4.0 cr.</td>
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<tr>
<td>DHBS 3316</td>
<td>Pharmacology</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DHBS 3328</td>
<td>Biochemistry and Nutrition</td>
<td>3.0 cr.</td>
</tr>
<tr>
<td>DHSD 3302</td>
<td>Periodontics 2 Lecture</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DHYG 3309</td>
<td>Dental Hygiene Patient Care Clinic 1</td>
<td>1.0 cr.</td>
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</table>

**DHBS 3312** Histology
The study of the normal structure of cells and tissues of the body and of selected organ systems with special emphasis on the normal structure of oral tissue. The relationship of normal structure to function is a course focus.

**DHBS 3318** Anatomy
This course will provide the student with a knowledge of the human body in sufficient depth to provide an understanding of general body structure and organization. Head and neck anatomy will be covered.

**DHBS 3324** Immunology, Microbiology, and Molecular Biology
Basic concepts of molecular biology and its relationship to microorganisms and their role in nature, the major classes of human pathogens and how they cause oral and systemic disease, and basic concepts of immunology and host defense mechanisms.

**DHDD 3308** Oral Radiology
Basic principles and techniques of oral radiology. Preliminary evaluation and interpretation of radiographs by the dental hygienist is emphasized. Basic intraoral radiology techniques and film processing and mounting are presented and practiced in the preclinical and clinical settings.

**DHRE 3300** Dental Morphology
Anatomical characteristics of the primary and permanent teeth in the human dentition with special consideration toward intra-arch relationships. Lab-waxing full crowns of each tooth type to anatomical form emphasizing intra-arch relationships.

**DHSD 3300** Periodontics 1 Lecture
This course studies the normal anatomy and physiology of the periodontium and the pathogenesis of periodontal diseases. It will provide the student with the basics of the structure and biology of the normal periodontium and pathology of the periodontal diseases.

**DHYG 3308** Dental Hygiene Clinical Science Lecture 1
Provides fundamental theory and principles of dental hygiene care to patients. The scientific basis, as well as the techniques for periodontal instrumentation is taught.

**DHYG 3319** Pre-Clinical Dental Hygiene Laboratory 1
Opportunity for skill development in dental hygiene instrumentation as well as provision of other dental hygiene care.

**DHBS 3310** Pathology
A study of principles of general pathology, including cell injury, inflammation and repair, anomalies of cell growth, neoplasia and metabolic disease, essentials of oral pathology [including diseases of teeth, cysts, tumors, benign and malignant mucosal lesions, and salivary gland diseases].

**DHBS 3316** Pharmacology
The therapeutic and toxic actions and the application of chemical agents used in the diagnosis, prevention, and treatment of systemic and oral disease.

**DHBS 3328** Biochemistry and Nutrition
Basic biochemical principles related to nutrition in the life cycle and dental aspects of nutrition. Nutritional assessment and counseling are emphasized for systemic and oral health.

**DHSD 3302** Periodontics 2 Lecture
Treatment planning and disease control therapy for the periodontal patient including principles of patient evaluation, diagnosis, and treatment planning as well as aspects of phase 1 periodontal therapy, such as, occlusal therapy, debridement, local factor correction.

**DHYG 3309** Dental Hygiene Patient Care Clinic 1
The dental hygiene student assesses, plans, implements and evaluates dental hygiene care for the less involved periodontal patients.
### DHYG 3313  Comprehensive Patient Care Clinic A
1.0 cr.
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.

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### 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.

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### 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 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/Research 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.

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### DHAD 4438  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  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.

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.

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  0.4 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  0.4 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

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 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

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>DSAD 5855</td>
<td>Independent Study</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSBS 5516</td>
<td>Organ Pathology</td>
<td>3.1 cr.</td>
</tr>
<tr>
<td>DSBS 5514</td>
<td>General Pathology</td>
<td>3.1 cr.</td>
</tr>
<tr>
<td>DSOD 5500</td>
<td>Health Data Collection 1</td>
<td>0.5 cr.</td>
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<tr>
<td>DSOP 5506</td>
<td>Principles of Operative Dentistry Direct Restoration 2</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td>DSOP 5507</td>
<td>Principles of Operative Dentistry Direct Restoration 2 Lab</td>
<td>0.6 cr.</td>
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<tr>
<td>DSRE 5508</td>
<td>Indirect Single Tooth Restoration 1</td>
<td>0.6 cr.</td>
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<tr>
<td>DSRE 5509</td>
<td>Indirect Single Tooth Restoration 1 Lab</td>
<td>0.6 cr.</td>
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### SECOND YEAR, Fall Semester

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<tr>
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<tbody>
<tr>
<td>DSAD 6682</td>
<td>Clinical Practicum</td>
<td>0.8 cr.</td>
</tr>
<tr>
<td>DSBS 5516</td>
<td>Organ Pathology</td>
<td>3.1 cr.</td>
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</tbody>
</table>
SECOND YEAR, Spring Semester

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

DSAD 6622  Managing Your Student Practice  1.6 cr.
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, medicolegal implications, ethical implication, professionalism, organization skills, communication skills, auxiliary utilization, and equipment/instrument utilization.

DSEN 6610  Endodontics 1  2.0 cr.
Course is an introduction to basic endodontics therapy. The philosophy of endodontics treatment and therapeutic techniques is discussed. Mechanisms of inflammation and repair are related to decisions in clinical practice.

DSEN 6611 Endodontics 1 Lab
This is a laboratory course in basic endodontics techniques utilizing extracted natural teeth as models of clinical treatment.

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

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

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

DSOD 6603 Oral Radiology Laboratory
The laboratory is designed to provide students with the necessary practical skills in preparation for clinical dentistry.

DSON 6612 Oral Pathology 2
This course is a continuation of Oral Pathology 1.

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

DSPE 6604 Periodontics 2
This course deals with the prevention, treatment and control of periodontal disease. Currently accepted therapies are discussed in detail. In addition, the student is taught how to evaluate new therapies which periodically become available.

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

DSRE 6602 Dental Materials Science 2
Course introduces materials used in the practice of dentistry. Their chemistry, physical properties, and biological interaction are discussed as well as their advantages, disadvantages, and methods of clinical use.

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

DSRP 6602 Removable Partial Prosthodontics
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
Laboratory exercises which follow lectures of principles of partial removable prosthodontics. The student should be familiar with all the necessary steps in completion of a mandibular removable partial denture.

DSSD 6600 Clinical Dental Pharmacology
Integration of basic drug mechanisms with fundamentals of clinical pharmacology and patient care.

DSSD 6604 Pain Control 1 (Local Anesthesia)
The anatomy of the nerve supply to the teeth and associated structures is covered. The techniques for administration of local anesthesia to the maxilla and mandible are demonstrated by the faculty and performed by the student.
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<tr>
<td>DSSD 6608</td>
<td>Prevention and Management of Medical Emergencies</td>
<td>1.4 cr.</td>
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<tr>
<td>DSAD 6615</td>
<td>Comprehensive Patient Care Clinic A</td>
<td>2.0 cr.</td>
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<tr>
<td>DSAD 6677</td>
<td>Independent Study</td>
<td>Variable cr.</td>
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<tr>
<td>DSFD 6655</td>
<td>Clinical Fixed Prosthodontics</td>
<td>Variable cr.</td>
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<tr>
<td>DSOD 6655</td>
<td>Clinical Oral Diagnosis</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSOD 6657</td>
<td>Clinical Oral Radiology</td>
<td>0.6 cr.</td>
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<tr>
<td>DSOP 6610</td>
<td>Operative Dentistry Seminar 2</td>
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<tr>
<td>DSOP 6655</td>
<td>Clinical Operative Dentistry</td>
<td>Variable cr.</td>
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<tr>
<td>DSPD 6630</td>
<td>Pediatric Dentistry 2</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DSPE 6655</td>
<td>Clinical Periodontics</td>
<td>Variable cr.</td>
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<tr>
<td>DSRE 6612</td>
<td>Occlusion 2</td>
<td>0.6 cr.</td>
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<tr>
<td>DSRE 6613</td>
<td>Occlusion 2 Laboratory</td>
<td>0.6 cr.</td>
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<tr>
<td>DSRP 6655</td>
<td>Clinical Removable Prosthodontics</td>
<td>Variable cr.</td>
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<tr>
<td>DSSD 6610</td>
<td>Pain Control 2 (Nitrous Oxide Analgesia)</td>
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<tr>
<td>DSAD 7713</td>
<td>Community Assessment</td>
<td>0.8 cr.</td>
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<tr>
<td>DSAD 7717</td>
<td>Comprehensive Patient Care Clinic B</td>
<td>3.0 cr.</td>
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<tr>
<td>DSAD 7720</td>
<td>Behavioral, Geriatric, and Special Dentistry</td>
<td>2.6 cr.</td>
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**DSAD 7855 Independent Study**  
Variable cr.

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

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

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

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

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

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

**DSPE 7710 Periodontics 3**  
The course is devoted to making the student familiar with the surgical management of periodontal disease. The indications and rationale for resection, reconstructive and mucogingival procedures are discussed.  
0.7 cr.

**DSPE 7711 Periodontics 3 Laboratory**  
The student is given the opportunity to practice a variety of clinical procedures. Pig mandibles are utilized for these laboratory exercises.  
0.1 cr.

**DSPE 7755 Clinical Periodontics**  
Clinical rotation in periodontics.  
Variable cr.

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

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

**DSRE 7744 Cariology 3 – Section 1**  
The course provides students with a process to track patients at risk for caries, record actual caries experience, determine caries risk assessment, plan preventive care, document treatment (surgical and non-surgical) evaluate results achieved, and modify treatment as necessary.  
0.5 cr.

**DRSP 7755 Clinical Removable Prosthodontics**  
Clinical rotation in removable prosthodontics.  
Variable cr.

**DSSD 7710 Orofacial Pain**  
1.2 cr.
This course is designed to acquaint the student with the evaluation, diagnosis, management, and pathology of the temporomandibular joint. Emphasis is on the multidisciplinary nature of treating disorders of the TMJ.

**DSSD 7712  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. Independent study assigned by course director.

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<tr>
<td>DSSD 7719   Comprehensive Patient Care Clinic C</td>
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<tr>
<td>DSAD 7726   Dental Practice Planning</td>
<td>2.2 cr.</td>
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<tr>
<td>DSDD 7700   Medical Problems and Physical Assessment</td>
<td>0.7 cr.</td>
</tr>
<tr>
<td>DSDD 7702   Hospital Dentistry</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td>DSEN 7712   Endodontics 3</td>
<td>0.9 cr.</td>
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<tr>
<td>DSOT 7720   Orthodontics 3</td>
<td>1.4 cr.</td>
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### THIRD YEAR, Spring Semester

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<tbody>
<tr>
<td>DSEN 7757   Clinical Endodontics</td>
<td>Variable cr.</td>
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<tr>
<td>DSFD 7757   Clinical Fixed Prosthodontics</td>
<td>Variable cr.</td>
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<tr>
<td>DSOD 7720   Treatment Planning Conference 2</td>
<td>0.3 cr.</td>
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<tr>
<td>DSOD 7724   Diagnostic Radiology</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>DSOD 7757   Clinical Oral Diagnosis</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSON 7755   Clinical Oncology</td>
<td>0.3 cr.</td>
</tr>
<tr>
<td>DSOP 7757   Clinical Operative Dentistry</td>
<td>Variable cr.</td>
</tr>
<tr>
<td>DSOT 7757   Clinical Orthodontics</td>
<td>Variable cr.</td>
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</table>
DSPD 7757  **Clinical Pediatric Dentistry**  
Clinical rotation in pediatric dentistry.  

**Variable cr.**

DSPE 7757  **Clinical Periodontics**  
Clinical rotation in periodontics.  

**Variable cr.**

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.  

**0.5 cr.**

DSRP 7757  **Clinical Removable Prosthodontics**  
Clinical rotation in removable prosthodontics.  

**Variable cr.**

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### THIRD YEAR, Summer Semester

**DSAD 7721  Comprehensive Patient Care Clinic D**  
Continuation of Comprehensive Patient Care C with emphasis on effective practice management.  

**3.0 cr.**

DSEN 7759  **Clinical Endodontics**  
Clinical rotation in endodontics.  

**Variable cr.**

DSFD 7759  **Clinical Fixed Prosthodontics**  
Clinical rotation in fixed prosthodontics.  

**Variable cr.**

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

**0.6 cr.**

DSOD 7722  **Treatment Planning Conference 3**  
Continuation of Treatment Planning Conference 2.  

**0.2 cr.**

DSOD 7759  **Clinical Oral Diagnosis**  
Clinical rotation in oral diagnosis.  

**Variable cr.**

DSOP 7759  **Clinical Operative Dentistry**  
Clinical rotation in operative dentistry.  

**Variable cr.**

DSPD 7759  **Clinical Pediatric Dentistry**  
Clinical rotation in pediatric dentistry.  

**Variable cr.**

DSPE 7759  **Clinical Periodontics**  
Clinical rotation in periodontics.  

**Variable cr.**

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

**0.5 cr.**

DSRP 7759  **Clinical Removable Prosthodontics 1**  
Clinical rotation in removable prosthodontics.  

**Variable cr.**

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### FOURTH YEAR, Fall Semester

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

**3.0 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 0.2 cr.
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.

### DSOD 8855 Clinical Oral Diagnosis Variable cr.
Clinical rotation in oral diagnosis.

### DSOP 8855 Clinical Operative Dentistry Variable cr.
Clinical rotation in operative dentistry.

### DSOS 8855 Clinical Oral and Maxillofacial Surgery 2.5 cr.
This is a clinical oral surgery experience including routine and surgical removal of erupted and impacted teeth and use of intravenous sedation techniques.

### DSOT 8855 Clinical Orthodontics Variable cr.
Clinical rotation in orthodontics.

### DSPE 8810 Periodontics 4 0.6 cr.
This course emphasizes the interrelationships of periodontics and restorative dentistry and the management of advanced periodontal pathology is discussed.

### DSPE 8855 Clinical Periodontics Variable cr.
Clinical rotation in periodontics.

### DSRE 8844 Cariology 4 0.5 cr.

### DSRP 8812 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 proesthetic techniques, diagnosis and treatment planning analysis of current systems, qualifications and consent, and clinical applications.

### DSRP 8855 Clinical Removable Prosthodontics Variable cr.
Clinical rotation in removable prosthodontics.

### DSSD 8855 Clinical Emergencies 1.3 cr.
The patient who presents with oral pain is evaluated and relief of discomfort is provided by the student under the supervision of the dental faculty.

### FOURTH YEAR, Spring Semester

### DSAD 8812 Dental Ethics and Jurisprudence 0.9 cr.
This course prepares students for appropriate conduct consistent with the legal and ethical principles of the dental profession. It lays the foundations for each student's continued growth with respect to the legal and ethical obligations of professionalism.

### DSAD 8822 Practice Management 1.8 cr.
Primary focus is on financial records, billing and collections, professional insurance, fees, clinical records, third party relations, case presentation, practice analysis, dental practice marketing, and personnel management.

### DSAD 8827 Comprehensive Patient Care Clinic F 11.0 cr.
Continuation of advanced comprehensive patient care activities for DS 4 dental students not registered for Integrated Care Clinic Dentistry.

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

### DSAD 8890 Integrated Care Clinical Dentistry 3.1 cr.
Students receive six weeks experience providing clinical care to geriatric, physically and mentally compromised patients with emphasis on clinical and behavioral skills necessary to treat special patients. Experience with portable dental equipment and exposure to other case settings is given.

### DSAD 8891 Community-Based Clinical Dentistry 1 3.9 cr.
Students complete six weeks (may elect an additional eighteen weeks) in a non-metropolitan community-based educational site. Objectives of clinical experiences vary according to site assignment and include rural community health centers, psychiatric hospitals, migrant health care, or private practice locations.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSAD 8892</td>
<td>Community-Based Clinical Dentistry 2</td>
<td>3.9 cr.</td>
</tr>
<tr>
<td></td>
<td>Students complete six weeks (may elect an additional eighteen weeks) in a non-metropolitan community-based educational site. Objectives of clinical experiences vary according to site assignment and include rural community health centers, psychiatric hospitals, migrant health care, or private practice locations.</td>
<td></td>
</tr>
<tr>
<td>DSAD 8893</td>
<td>Community-Based Clinical Dentistry 4</td>
<td>3.9 cr.</td>
</tr>
<tr>
<td></td>
<td>Students complete six weeks (may elect an additional eighteen weeks) in a non-metropolitan community-based educational site. Objectives of clinical experiences vary according to site assignment and include rural community health centers, psychiatric hospitals, migrant health care, or private practice locations.</td>
<td></td>
</tr>
<tr>
<td>DSEN 8810</td>
<td>Endodontics 4</td>
<td>0.3 cr.</td>
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<tr>
<td></td>
<td>This is an advanced course in endodontics clinical practice. Endodontic implants, autogenous transplants, advanced surgical concepts and controversies will be included.</td>
<td></td>
</tr>
<tr>
<td>DSOD 8820</td>
<td>Forensic Dentistry</td>
<td>0.4 cr.</td>
</tr>
<tr>
<td></td>
<td>Introductory concepts and techniques in forensic dentistry are presented and discussed.</td>
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</tr>
<tr>
<td>DSRE 8810</td>
<td>Restorative Dentistry Advanced Clinical Training Service Seminar</td>
<td>1.6 cr.</td>
</tr>
<tr>
<td></td>
<td>This seminar-type course is a broad discussion of advanced restorative techniques for complex prosthodontic rehabilitation or reconstruction cases. Specific topics such as aesthetics, TMJ considerations and materials application will be included.</td>
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</tbody>
</table>

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<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>DSAD 8837</td>
<td>Comprehensive Patient Care Clinic G</td>
<td>11.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Continuation of advanced comprehensive patient care activities for DS 4 dental students not registered for Integrated Care Clinical Dentistry.</td>
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</tr>
<tr>
<td>DSAD 8894</td>
<td>Community Based Clinical Dentistry 4</td>
<td>5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Students complete six weeks (may elect to take additional eighteen weeks) in a non-metropolitan, community-based educational site. Current sites include rural community health centers, special patient care hospitals, and migrant health care programs as well as several private practice locations.</td>
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</table>

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<tr>
<th>COURSE</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>DSAD 8847</td>
<td>Comprehensive Patient Care Clinic H</td>
<td>11.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Continuation of advanced comprehensive patient care activities for late DS IV dental students not registered for integrated Care Dentistry.</td>
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</tr>
</tbody>
</table>

**DENTAL INTERNATIONAL STUDENT PROGRAM**

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

<table>
<thead>
<tr>
<th>COURSE</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DISP 7100</td>
<td>Restorative Preclinical Simulation</td>
<td>1.9 cr.</td>
</tr>
<tr>
<td></td>
<td>This seminar-based course introduces the student to an overview of contemporary restorative procedures in a simulated clinical environment.</td>
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<tr>
<td>DISP 7101</td>
<td>Restorative Preclinical Simulation Lab</td>
<td>0.7 cr.</td>
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<tr>
<td></td>
<td>This laboratory-based course provides students with an overview of restorative techniques in a simulated clinical environment.</td>
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<tr>
<td>DISP 7102</td>
<td>Occlusion</td>
<td>1.1 cr.</td>
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<tr>
<td></td>
<td>Course covering principles of intra and inter-oral relationships. Course will also cover diagnosis and treatment regarding the occlusion relationship.</td>
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</tr>
<tr>
<td>DISP 7103</td>
<td>Occlusion Lab</td>
<td>0.9 cr.</td>
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<tr>
<td></td>
<td>The laboratory portion of this course includes fabrication of different splint types. It also introduces principles of equilibration and applying these principles to models.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
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<tr>
<td>DISP 7105</td>
<td>Dental Materials</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DISP 7106</td>
<td>Clinical Practice Ethics</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td>DISP 7112</td>
<td>Cariology</td>
<td>0.9 cr.</td>
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<tr>
<td>DISP 7122</td>
<td>Periodontics 2</td>
<td>1.9 cr.</td>
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<tr>
<td>DISP 7123</td>
<td>Periodontics 2 Lab</td>
<td>1.8 cr.</td>
</tr>
<tr>
<td>DISP 7124</td>
<td>Clinical Dental Pharmacology</td>
<td>0.4 cr.</td>
</tr>
<tr>
<td>DISP 7125</td>
<td>Pain Control 1 (Local Anesthesia)</td>
<td>0.9 cr.</td>
</tr>
<tr>
<td>DISP 7126</td>
<td>Prevention and Management of Medical Emergencies</td>
<td>1.4 cr.</td>
</tr>
<tr>
<td>DISP 7127</td>
<td>Medical Problems and Physical Assessment</td>
<td>0.7 cr.</td>
</tr>
<tr>
<td>DISP 7128</td>
<td>Hospital Dentistry</td>
<td>0.6 cr.</td>
</tr>
<tr>
<td>DISP 7129</td>
<td>Infection Control</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>DISP 7130</td>
<td>Oral Radiology</td>
<td>2.3 cr.</td>
</tr>
<tr>
<td>DISP 7131</td>
<td>Oral Radiology Lab</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>DISP 7132</td>
<td>Diagnostic Radiology</td>
<td>0.5 cr.</td>
</tr>
<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>
</tbody>
</table>

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

Case-based ethics discussion.

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.

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.

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

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

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.

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

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.

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

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

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

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

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.

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

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

DISP 7161 Dental Practice Planning  
Teaches students to make decisions in planning/implementation of private practice. Primary focus on alternative practice arrangements, business formats, dental associateships, buying practice, designing/equipping dental office, financing a practice, leases, debt management, personal/professional insurance, and selecting professional advisors.

DISP 7162 Public Health and Community Dentistry  
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.

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FIRST YEAR, Summer Semester

DISP 7202 Case Presentation  
Patient care with development of treatment plan through presentation by student to students and faculty.

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

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

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

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

DISP 7210 Endodontics 2  
Course is an introduction to basic endodontic therapy. The philosophy of endodontic treatment and therapeutic techniques is discussed. Mechanisms of inflammation and repair are related to decisions in clinical practice.

DISP 7211 Endodontics 2 Laboratory  
This is a laboratory course in basic endodontic techniques utilizing extracted natural teeth as models of clinical treatment.

DISP 7212 Removable Partial Prosthodontics  
Acquaints the student with principles of removable partial prosthodontics. Includes principles of partial denture design and fabrication as they relate to preventive dentistry.

DISP 7213 Removable Partial Prosthodontics Laboratory  
Laboratory exercises which follow lectures of principles of partial removable prosthodontics. The student should be familiar with all the necessary steps in completion of a mandibular removable partial denture.

DISP 7216 Operative Dentistry Seminar  
This course will present topics on operative dentistry relative to clinic patient care. Current materials and techniques as well as a review of fundamental concepts of operative dentistry will be taught.

DISP 7220 Pain Control 2 (Nitrous Oxide Analgesia)  
Pharmacological indications and contraindications and prevention and treatment of complications relating to use of nitrous oxide is presented.

DISP 7221 Clinical Periodontics  
Clinical rotation in periodontics

DISP 7230 Clinical Oral Radiology  

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

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

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

**DISP 7240 Pediatric Dentistry 2**  
Basic principles of clinical diagnosis and treatment of the child patient are introduced.

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

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

**DISP 7322 Oral Facial Pain**  
1.2 cr.
This course is designed to acquaint the student with the evaluation, diagnosis, management, and pathology of the temporomandibular joint. Emphasis is on the multidisciplinary nature of treating disorders of TMJ.

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

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

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

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

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

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

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

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

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

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**SECOND YEAR, Spring Semester**

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

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

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

**DISP 8103  Clinical Restorative**  
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.  
Variable cr.

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

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

**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.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DISP 8123</td>
<td>Clinical Endodontics</td>
<td>Variable cr.</td>
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<tr>
<td></td>
<td>Clinical rotation in endodontics.</td>
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<tr>
<td>DISP 8124</td>
<td>Clinical Periodontics</td>
<td>Variable cr.</td>
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<tr>
<td></td>
<td>Clinical rotation in periodontics.</td>
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<tr>
<td>DISP 8125</td>
<td>Clinical Oral Maxillofacial Surgery</td>
<td>2.5 cr.</td>
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<tr>
<td></td>
<td>This is a clinical oral surgery experience including routine and surgical removal of erupted and impacted teeth and use of intravenous sedation techniques.</td>
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<tr>
<td>DISP 8126</td>
<td>Treatment Planning Conference 2</td>
<td>0.9 cr.</td>
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<tr>
<td></td>
<td>Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.</td>
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<tr>
<td>DISP 8130</td>
<td>Clinical Oncology</td>
<td>0.3 cr.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DISP 8131</td>
<td>Oral Pathology 2</td>
<td>2.3 cr.</td>
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<td></td>
<td>This course is a continuation of DISP 7330.</td>
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<tr>
<td>DISP 8132</td>
<td>Forensic Dentistry</td>
<td>0.4 cr.</td>
</tr>
<tr>
<td></td>
<td>Introductory concepts and techniques in forensic dentistry are presented and discussed.</td>
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<tr>
<td>DISP 8133</td>
<td>Clinical Oral Diagnosis</td>
<td>Variable cr.</td>
</tr>
<tr>
<td></td>
<td>Clinical rotation in oral diagnosis.</td>
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</tr>
<tr>
<td>DISP 8160</td>
<td>Dental Ethics and Jurisprudence</td>
<td>0.9 cr.</td>
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<td></td>
<td>This course prepares students for appropriate conduct consistent with the legal and ethical principles of the dental profession. It lays the foundations for each student’s continued growth with respect to the legal and ethical obligations of professionalism.</td>
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<tr>
<td>DISP 8161</td>
<td>Practice Management</td>
<td>1.8 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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**SECOND YEAR, Summer Semester**

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<tr>
<td>DISP 8200</td>
<td>Case Presentation 5</td>
<td>1.4 cr.</td>
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<tr>
<td></td>
<td>Patient care with development of treatment plan through presentation by student to students and faculty.</td>
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<tr>
<td>DISP 8201</td>
<td>Comprehensive Patient Care Clinic D</td>
<td>Variable cr.</td>
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<tr>
<td></td>
<td>Continued provision of Comprehensive Patient Care Clinic C with emphasis on effective practice management.</td>
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<tr>
<td>DISP 8202</td>
<td>Clinical Restorative</td>
<td>Variable cr.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DISP 8203</td>
<td>Special Care Clinic</td>
<td>0.2 cr.</td>
</tr>
<tr>
<td>DISP 8210</td>
<td>Clinical Prosthodontics Seminar</td>
<td>0.6 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DISP 8220</td>
<td>Clinical Endodontics</td>
<td>Variable cr.</td>
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<tr>
<td></td>
<td>Clinical rotation in endodontics.</td>
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</tr>
<tr>
<td>DISP 8222</td>
<td>Clinical Periodontics</td>
<td>Variable cr.</td>
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</tbody>
</table>
Clinical rotation in periodontics.

**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, Fall Semester

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

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

**DISP 8302**  **Clinical Restorative**  
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.  
Variable cr.

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

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

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

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

**DISP 8350**  **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.

**DISP 8351**  **Orthodontics 2**  
Comprehensive diagnostic records are taken. Removable appliances for interceptive and corrective orthodontic treatment. Lab techniques to determine tooth size, arch length, mixed dentition and cephalometric analysis and the fabrication of fixed and removable appliances for interceptive and corrective orthodontic treatment.  
0.5 cr.

**DISP 8352**  **Orthodontics 3**  
Student utilizes acquired knowledge from course as well as from previous orthodontic courses to synthesize a general orthodontic treatment plan. Additional treatment techniques will be taught both to coordinate with the specialist and to enhance the general practice of dentistry.  
1.4 cr.

### ORTHODONTICS CERTIFICATE PROGRAM

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

**FIRST YEAR, Fall Semester**

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

**DSOR 5102**  **Dentofacial Growth and Development 1**  
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.  
2.0 cr.
DSOR 5103  Diagnosis and Treatment Planning 1
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
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
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 5106  Dento/Craniofacial Anomalies 1
This post-doctoral course is a study of dental and craniofacial anomalies and the orthodontic and surgical treatment of patients. This includes both seminars and case-based and case-presentation study.

DSOR 5107  Treatment Planning 1
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
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
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 5201  Pathology/Microanatomy Spring
This post-doctoral course is an in-depth study of orofacial pathology and microanatomy that is pertinent to orthodontic diagnosis, treatment planning, and treatment, to include the micro-anatomical effects of tooth movement.

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

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

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

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

**DSOR 5206  Dento/Craniofacial Anomalies 2**  
Prereq: DSORS5106  
This post-doctoral course is a study of dental and craniofacial anomalies and the orthodontic and surgical treatment of patients. This course includes seminars, case-based, and case-presentation study.

**DSOR 5207  Treatment Planning 2**  
Prereq: DSORS5107  
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 5208  Current Literature Review 2**  
Prereq: DSORS5108  
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 5211  Treatment in Preadolescent Children**  
This post-doctoral course is a study of the orthodontic and pediatric care of the preadolescent patient, to include preventative and Phase I patient care.

**DSOR 5842  Research 2**  
Prereq: DSORS5841  
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**  
Prereq: DSORS5931  
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

### FIRST YEAR, Summer Semester

**DSOR 5301  Head and Neck Anatomy**  
This post-doctoral course is an advanced study of head and neck anatomy as it relates to orthodontic patient care.

**DSOR 5304  Biomechanics 3**  
Prereq: DSORS5104, DSORS5204  
This post-doctoral course is an in-depth, advanced study of orthodontic biomechanical systems and their effect on the craniofacial and dental structures. Included in this course are the protocols required to treat both skeletal and dental malocclusions.

**DSOR 5306  Dento/Craniofacial Anomalies 3**  
Prereq: DSORS5106, DSORS5206  
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 5307  Treatment Planning 3**  
Prereq: DSORS5107, DSORS5207  
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 5308  Current Literature Review 3**  
Prereq: DSORS 5108, DSORS 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**  
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: DSORS841, DSORS842
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: DSORS931, DSORS932
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, Fall Semester**

**DSOR 6101 Implants in the Orthodontic Patient** 1.2 cr.
This post-doctoral course is an in-depth study of the use of implants in patients both for restorative dentistry
and as orthodontic anchorage.

**DSOR 6106 Dento/Craniofacial Anomalies 4** 1.1 cr.
Prereq: DSORS5106, DSORS5206, DSORS5306
This post-doctoral course is a study of dental and craniofacial anomalies and the orthodontic and surgical
treatment of patients. This includes both seminar, case-based, and case-presentation study.

**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
This post-doctoral course requires student to 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 6112 Orthodontic Clinical Teaching 1** 1.0 cr.
This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques
to the predoctoral dental student.

**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: DSORS841, DSORS842, DSORS843
Course requires student to select a research topic, define a research question, do a literature search on the
topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable
manuscript on the project.

**DSOR 6934 Clinical Orthodontics IV Fall** 9.6 cr.
Prereq: DSORS931, DSORS932, DSORS933
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

SECON DYEAR, 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: DSOR5106, DSOR5206, DSOR5306, DSOR6106
This post-doctoral course is a study of dental and craniofacial anomalies and the orthodontic and surgical treatment of patients. This includes both seminars, case-based and case-presentation study.

DSOR 6207  Treatment Planning 5  3.8 cr.
Prereq: DSOR5107, DSOR5207, DSOR5307, DSOR6107
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

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

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

DSOR 7106  Dento/Craniofacial Anomalies 6  0.7 cr.
Prereq: DSOR5106, DSOR5206, DSOR5306, DSOR6106, DSOR6206
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 7107  Treatment Planning 6  2.2 cr.
Prereq: DSOR5107, DSOR5207, DSOR5307, DSOR6107, DSOR6207
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

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

DSOR 7108  Current Review 6  0.7 cr.
Prereq: DSOR5108, DSOR5208, DSOR 5308, DSOR6108, DSOR 6208
Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

DSOR 7846  Research 6  1.7 cr.
Prereq: DSOR5841, DSOR5842, DSOR5843, DSOR6844, DSOR6845
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

THIRD YEAR, Summer Semester

DSOR 7845  Research 6  1.7 cr.
Prereq: DSOR5841, DSOR5842, DSOR5843, DSOR6844, DSOR6845
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>DSOR 7936</td>
<td>Clinical Orthodontics 6</td>
<td>6.4 cr.</td>
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<td>Prereq: DSOR5931, DSOR5932, DSOR5933, DSOR6934, DSOR6935</td>
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<td>DSOR 7938</td>
<td>Clinical Problems 1</td>
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**THIRD YEAR, Fall Semester**

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<td>DSOR 7206</td>
<td>Dento/Craniofacial Anomalies 7</td>
<td>1.0 cr.</td>
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<td>Prereq: DSOR5106, DSOR5206, DSOR5306, DSOR6106, DSOR6206, DSOR7106</td>
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<td>DSOR 7207</td>
<td>Treatment Planning 7</td>
<td>2.8 cr.</td>
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<td>Prereq: DSOR5107, DSOR5207, DSOR5307, DSOR6107, DSOR6207, DSOR7107</td>
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<td>Current Literature Review 7</td>
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<td>Prereq: DSOR5108, DSOR5208, DSOR 5308, DSOR 6108, DSOR6208, DSOR 7108</td>
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<td>DSOR 7209</td>
<td>Orthodontic Predoctoral Laboratory Teaching 2</td>
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<td>DSOR 7212</td>
<td>Orthodontic Clinical Teaching 3</td>
<td>1.1 cr.</td>
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<td>DSOR 7847</td>
<td>Research 7</td>
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<td>Prereq: DSOR5841, DSOR5842, DSOR5843, DSOR6844, DSOR6845, DSOR7846</td>
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<td>DSOR 7937</td>
<td>Clinical Orthodontics 7</td>
<td>8.2 cr.</td>
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<td>Prereq: DSOR5931, DSOR5932, DSOR5933, DSOR6934, DSOR6935, DSOR 7936</td>
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