

# Oregon Health & Science University

## School of Dentistry

Course Syllabus – Second Year Winter Term

### **CDEN 600 Health Promotion**

The purpose of this course is to provide dental students with the theory and application of concepts in health promotion. An understanding of such concepts will enable the student to provide dental health care that is culturally sensitive, fosters positive health behaviors and acknowledges the health beliefs of all individuals and communities.

### **CDEN 650 History of Dentistry**

The purposes of this course are to provide students with knowledge of the evolution of dentistry, to acquaint students with the interrelationships of dentistry, medicine and science, and to acquaint students with dentistry's many contributions to human well-being.

### **FPROS 622 Fixed Prosthodontic Technique V**

This course is the second in a series of three preclinical laboratories in fixed prosthodontic technique. Areas of crown and bridge prosthodontics covered may include variations of tooth preparations, impression techniques, waxing, casting, soldering, ceramics, principles of occlusion, cementation of castings, pontic design and clinical orientation.

### **MB 622 Pathogenic and Oral Microbiology**

This course is designed to follow directly from OMB 621, and to build directly on the knowledge and concepts learned in that course. The course is designed to analyze major mechanisms of infectious disease and the resultant useful and harmful responses of the host. The focus is on understanding underlying processes using key example diseases to give depth for evaluating virulence mechanisms. This basic material will help students connect with future Pathology and clinical courses and locate and evaluate new information concerning past, present and future diseases. The course starts with Analysis of microbial diseases and progresses through key viral diseases, Candidiasis, prior diseases ending with oral ecology/microbiology and periodontal diseases. Much of the material highlights mucosal spread of disease and mucosal diseases. There is special emphasis on plaque related microbial diseases.

### **OD 622 Diagnostic Process II**

This course will prepare the student for clinical practice within the School of Dentistry and as a beginning general dentist. It will provide pre-clinical experience in the comprehensive evaluation of dental patients, clinical data collection, assessment of findings, chart documentation, diagnosis, and treatment planning.

### **OP 622 Operative Technique Lecture III**

To prepare the students in the area of dentistry that deals with the diagnosis and treatment of missing or diseased parts of the clinical crowns of natural teeth. OP 622 continues from, reviews, and builds on material covered in previous Operative Dentistry lecture and laboratory courses. Topics covered include moisture control during operative procedures; criteria of selecting restorative materials, comparisons between materials; protection of the vital pulp, cavity liners, drugs, iatrogenic problems; clinic orientation, patient management, pain control, treatment planning and chair positions.

### **OP 625 Operative Technique Laboratory III**

To demonstrate in a laboratory setting the skills necessary to perform operative procedures. Students prepare and restore more complex and extensive restorations. OP 625 continues from, reviews, and builds on material in previous Operative Dentistry lecture and laboratory courses.

### **OPTH 623 Immuno-Inflammatory Diseases**

The course is designed to analyze major mechanisms of disease (infectious or otherwise) with emphasis on the resultant useful and harmful immune responses of the host. The focus is on understanding underlying processes (that often involves immune-disregulation) using key example diseases to give depth for evaluating immunopathologic mechanisms. This basic material will help students connect with future Pathology and clinical courses and locate and evaluate new information concerning past, present and future diseases. The course starts with analysis of granulomatous diseases, fungal infections, and then progresses through key viral diseases. Transplantation, immunodeficiencies, autoimmune diseases, and finally immune-mediated oral diseases follow this. Much of the material highlights the immunopathology of mucosal diseases.

### **OPTH 625 Caries**

This course is designed to acquaint the student with caries development, diagnosis, and treatment. The focus is on understanding underlying processes. This basic material will help students connect with future Pathology and clinical courses and locate and evaluate new information concerning past, present and future caries knowledge. The focus is on understanding underlying processes. The course starts with an examination of tooth (e.g., hydroxyapatite) structure and its relationship to lesion development, as well as the effects of fluoride on tooth structure, resistance to caries, and fluorosis. Key aspects of the microbiology of caries are then covered. The histopathology and radiological interpretation of caries follow. Finally, clinical correlation of course material with current (and future), clinical practices is done.

### **ORD 622 Facial Growth**

This lecture course introduces fundamental concepts of human craniofacial growth from prenatal development through adulthood. Lectures emphasize the time-dependent changes that occur with growth and physical maturation. Special emphasis is directed toward basic knowledge and understanding of craniofacial growth and the development of the teeth and occlusion

### **OS 625 Pain and Anxiety Control**

Integrated basic science and clinical training in anesthesia, oral, parenteral and inhalation sedation techniques. Basic principles of general anesthesia, physiology and psychology of pain and pharmacology of anesthetic and sedative agents are presented in context with patient evaluation and management.

### **PER 722 Non-Surgical Periodontics II**

This course will present the student with the opportunity for clinical application of periodontal techniques and instruments for prevention and definitive control of periodontal disease learned in PER 611/612/713/721. The student will act as a secondary dental provider, providing periodontal therapy to assigned patients with less complicated periodontal case types. Upon completion of the course, students will be prepared to perform a comprehensive periodontal examination, prevention education, and scaling and root planing as appropriate for the patient at the beginner level.

**REST 601 Occlusion I**

PROS 601 is the study of anatomy, function, and parafunction of the gnathosomatic system; relevance of occlusion in all phases of general dentistry; introduction to diagnosis and treatment of temporomandibular joint dysfunction. The student will complete a clinical examination and perform diagnostic mounting, occlusal adjustment, and delivery of occlusal splint on a patient.

**RPROS 622 Removable Prosthodontic Technique II**

This course is the second in a series of three courses covering removable prosthodontics technique, lecture and lab.