

# Oregon Health & Science University

## School of Dentistry

Course Syllabus – Second Year Fall Term

### **CDEN 602 Finance & Statistics in Dentistry**

The purpose of this course is to provide second year dental students with skills to critically review scientific literature including study design, basic statistics, and bias in research. The dental student will be introduced to basic economic principles, as well as financial management and financial planning concepts that will assist in reaching personal and professional financial goals.

### **FPROS 621 Fixed Prosthodontic Technique IV**

This course is the first 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 621 Microbiology and Immunology**

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 non-specific inflammation and specific adaptive immune responses. This is followed by an overview of bacteria and viruses, leading to discussions of representative bacteria and viral diseases. Much of the material highlights mucosal spread of disease, mucosal disease processes, and immune responses at mucosal sites. OMB 621 is designed to lead directly into OMB 622 the following term.

### **NU 623 Nutrition**

NU 623 covers the principles of nutrition as applied to oral and general health with emphasis on prevention. Lectures include discussions of nutrient requirements, the biochemical basis for these requirements, dietary sources of the nutrients, and the disease effects of the excess or deficient intake of each nutrient. To reinforce the principles of biochemistry presented in BCH 611/612 that are the foundation for understanding the biochemistry of nutrition; to increase understanding of how optimum nutrition positively affects oral health and healing of oral tissues.

### **OP 621 Operative Technique Lecture II**

OP 621 continue from, and build upon, material covered in the previous operative dentistry lecture and lab courses. The objectives for the previous course continue to be in effect and are included in the material that is expected to be mastered by the student this term.

### **OP 624 Operative Technique Laboratory II**

OP 621 and OP 624 continue from, review, and build on material covered in OP 613 and OP 616; objectives for the earlier courses continue to be in effect, and are included in material expected to be mastered by students.

### **OPTH 621 Basic Disease Processes**

The understanding of basic disease processes are the foundation upon which diagnosis rests. Fundamental changes which take place in tissues during disease processes are described didactically. The disease processes described are cell injury and death, inflammation and repair, disturbances of growth and circulatory disturbances. The main thrust of the conference section of the course is acquisition of skills in histopathologic diagnosis. This course is a starting point for future course work in systems pathology and in evaluating patients for disease states.

### **PER 621 Principles of Periodontology**

This course will prepare the student for clinical practice in the School of Dentistry and as a beginning dentist. It will provide an understanding into the Epidemiology of the disease, the classification of periodontal disorders, and the pathogenesis of each in the context of the general dental practice. This course will integrate both the basic science and the clinical aspect of periodontal disease.

### **PER 721 Non-Surgical Periodontics I**

PER 721 is the first in a series of two courses that presents the novice clinician the opportunity to apply the periodontal instrumentation techniques introduced in the DS 1 year. Working on each other, students will develop examination and scaling skills and then move on to treating patients with less complicated periodontal case types.

### **PHC 621 Pharmacodynamics**

This course is designed to provide the student with the basic knowledge he or she will need to assess drug-related issues that arise during the clinical care of patients. The students will be able to make decisions about use of therapeutic agents for the treatment of specific patients as well as evaluate the impact of the patients drug history on his/her oral health. The course integrates principles introduced in the first year courses of physiology, biochemistry, anatomy and nutrition into an assessment paradigm for pharmacotherapeutics and course prepares the students for their patient assessment course that follows in the winter term of their sophomore year.

### **RO 623 Extraoral Radiography & Interpretation**

This lecture course introduces radiographic techniques and interpretation of the most often used extraoral views in dentistry with special emphasis on panoramic radiography and standard skull films. A discussion of TMJ radiography and arthrography, tomography, dental implant imaging, sialography, CT and MRI imaging, subtraction radiography, digital imaging and other newly developing imaging systems is included.

### **RPROS 621 Removable Prosthodontic Technique I**

This course is the first in a series of three courses covering removable prosthodontics technique, lecture and lab. Topics covered include concepts of denture occlusion and equilibration and simulation of immediate and complete denture construction.