

Oregon Health & Science University

School of Dentistry

Course Syllabus – First Year Spring Term

AN 615 Oral Histology

Oral histology is the study of the development and structure of oral tissues. It serves as a basis for the study of oral pathology. In addition, the student learns to understand tissue characteristics and relationships which are necessary for determining the best therapy or procedure for the patient.

BSF 613 Neuroscience

Neuroscience (BSF 613) is intended to provide the students with an integrated approach to an understanding of the structure and function of the nervous system. Basic neuroanatomical and physiological principles will be stressed and related to the functioning of normal and diseased human nervous system.

DM 613 Intro To Dental Materials III

This course is the third in a series of three, one-credit hour courses. This course, as well as the preceding two (DM611-Fall and DM612-Winter) emphasizes basic material science theories as they relate to the use of metals, ceramics, and polymers in dentistry. The primary purposes of this course are to provide the student with knowledge of: 1) the general nature and composition of dental materials, 2) the physical properties of materials used in dentistry and medicine, and 3) the indications for and proper use of dental materials. This course is integrated with the pre-clinic course in Operative Dentistry (OP 613). The manipulation of the various materials are emphasized in those courses, but are introduced in this course.

OP 613 Operative Technique Lecture I

OP 613 provides an introduction to operative dentistry; classification and nomenclature of cavity preparation; principles of cavity preparation and design in relation to the histological structure of the teeth, and occlusal forces; composition, properties, uses and manipulation of restorative materials; investing and casting techniques. OP 616 Preclinical Operative Technique Laboratory compliments and is taken concurrently with the lecture series in OP 613.

OP 616 Operative Technique Laboratory I

To demonstrate in a laboratory setting the skills necessary to perform operative procedures. After familiarization with cutting instruments, the student prepares each type of cavity in an extracted human tooth. These preparations are restored with the appropriate material, which includes cohesive gold foil, silver amalgam, inlay gold, and composite materials. To emphasize time management, procedures are completed within established time limits.

PER 713 Periodontal Instrumentation II

This course is the second of a two term sequence designed to present the student with the opportunity to learn the application of the basic principles of periodontal data collection, prevention, and non-surgical periodontal instrumentation on a typodont followed by application on a student partner. Upon completion of the course, students will be prepared to begin clinical application of periodontal data collection and periodontal instrumentation at a novice level in PER721/722/723 on patients.

PHY 613 Physiology II

Physiology 613 covers the topics of endocrine physiology, reproductive physiology, and energy balance. This course prepares the student for future study of pharmacology and pathology related to these systems. There is an emphasis on developing critical thinking skills and the integrative nature of physiology relating one physiologic system to others.

REST 613 Fixed Prosthodontic Technique III

This course is a continuation of PROS 612 which continues in tooth preparation and beginning dental laboratory skills. This course is the third of a series that continues through the first and second dental year programs (PROS 613, 612,622,and 623).

RO 613 Principles of Oral Radiology II

This course is the second of two courses that will prepare the student in the basic principles of radiology that are required of all radiation workers using x-radiation, and also will begin to prepare the student in the radiographic interpretation of common oral diseases. It is an introductory didactic course that will begin the process of providing the knowledge and understanding of radiology that, together with previous didactic (RO 612) and laboratory (RO 615) courses and subsequent didactic (RO 623) and clinical (RO 730, RO 740) courses, will train the student to become a competent operator of dental x-ray machines with the ability to produce the highest quality diagnostic radiographs with the minimum amount of radiation. The radiographic interpretation component of the course will introduce the student to the areas of interpretation principles, dental caries, periodontal diseases, periapical inflammatory lesions, basic analysis of intraosseous lesions and radiographic features of benign and malignant lesions.