

## **CLD813 - Integrated Dental Practice**

This course is an introduction to the skills necessary to provide patient care and presents clinical and laboratory instruction on basic topics including:

- Infection control
- Patient and operator positioning
- Introduction to initial patient examination
- Patient record, charting
- Introduction to occlusal analysis
- Introduction to radiology
- Diagnostic impressions
- Pouring of impressions and fabrication of diagnostic casts
- Facebow record and mounting of diagnostic casts
- Fabrication of bleaching trays
- Observation in junior, senior, AEGD, PG pros and urgent dental care clinics
- Experience in suturing
- Observation in SDM dental laboratories
- Introduction to instrument management

This course incorporates a number of didactic and clinical technologies to support instruction, as follows:

- axiUm software for dental education management
- UBLearn (Blackboard) course management system
- Radiographic technologies
- Clinical photography

## **MIC502 - Medical Microbiology**

This course is designed as a core course on the basic concepts that are essential for an understanding of the microorganisms of medical and dental importance. In this framework a background of fundamental concepts on which the sciences of microbiology rests will be presented in a manner that relates to clinical medicine and dentistry. Emphasis will be placed on the aspects of microbiology that are directly pertinent to the diagnosis, treatment and prophylaxis of infectious diseases of man.

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## **ODS811 - Oral Radiology I**

This course is conducted the second semester of the first year of the DDS program. The course is designed to help you learn foundational radiology concepts, including, but not limited to, radiation physics, diagnostic oral and maxillofacial radiography, and basics in interpretation with specific focus on radiographic anatomy in standard imaging modalities used in dental medicine. This course uses lectures and assignments (reading and occasional on-line video) to teach these aspects of oral and maxillofacial radiology made available on UB Learns (Blackboard).

## **OSU801 - Medical Emergencies**

This required course in Oral and Maxillofacial Surgery will review and discuss the common medical emergencies which arise in the setting of the clinical practice of dentistry –identification, evaluation, treatment. Didactic instruction will consist of lectures and suggested readings.

## **PDO801 - Profession, Practice & Community Dentistry**

The objective of the course is to inspire dental students to take their profession and practice confidently into the community. PDO801 serves as an introduction to the community, its diversity, oral health needs and the health care provided. The course teaches the importance of service learning as a form of experience-based education and empowers students to raise the awareness of oral health in their community. Students interact with multi-faceted aspects of identity including race, age, ethnicity and ability and receive information on existing community programs, create programs of their own, and participate in outreach events.

The course ends with the opportunity to demonstrate best behavioral practices at an assimilated dental appointment, develop interpersonal and communication skills with cultural competency to apply clinical knowledge of various oral health presentations and conditions.

## **PDO803 - Psychosocial Issues in Dentistry**

The purpose of this course is to introduce students to the behavioral aspects of successful patient care. Students will learn that the psychosocial component is inseparable and needs to be addressed in all positive patient interactions. Students will develop effective patient communication skills and behavioral strategies. Students will also gain experience in identifying the oral health implications associated with the psychosocial component. The course will contribute to competence in practice, as well as preparation for board examinations.

## **PGY502 - Physiology**

Human Physiology is a didactic course presented in the second semester of Dental School for Year 1 students. The course provides the student with a basic understanding of how the normal body functions and defines the fundamental physiological principles that are necessary to understand in order to achieve success in undertaking advanced didactic and clinical courses and in meeting the SDM competencies.

## **RDN803 - Principles of Occlusion**

The primary purpose of dentistry is to maintain the functional integrity of the masticatory system. This is achieved, to a very great extent, by preserving and maintaining the dental occlusion. Although the term “occlusion” literally means “to close,” the “subject of occlusion” includes all of the biological, biomechanical and behavioral factors that cause, influence, or result from mandibular function, with or without opposing occlusal contact. Thus, the term “occlusion” implies that we are dealing with the structure and function of the entire masticatory system, as well as related structures and systems. It also implies that this subject, and therefore this course, encompasses information on the form and function of most components of the masticatory system, including the craniofacial complex, the teeth, the organization of the dentition, the periodontal supporting apparatus, the temporomandibular joints, the masticatory musculature, the neurosensory and neuromuscular systems, as well as mastication, deglutition, speech articulation, respiration, and parafunctional movements of the mandible associated with oral habits.

At the end of this course, each student will be expected to thoroughly understand the form and function of dental occlusion, as well as the underlying systems, structures, functions and phenomena of opposing arch movements.

## **RDN806 - Introduction to Digital Dentistry**

This course is a continuation of the prior Fall courses, on Dental Anatomy and Preclinical Basic Skills. This course reemphasizes the knowledge and skills developed in the previous courses by using virtual three-dimensional images of human teeth allowing the understanding of the internal anatomy and introduces skills of virtual wax-up of anterior and posterior teeth.

## **RDN809 - Cariology & Direct Restorations Lecture & Lab**

This lecture course is designed to provide relevant information regarding the topics of diagnosis and treatment of carious lesions and other hard tissue defects, caries risk assessment, fundamental methods for the prevention of dental caries using fluoride varnishes and other remineralizing agents, fundamental concepts in the practice of modern direct restorative dentistry, as well as the principles for the preparation and restoration with direct restorative materials. This course introduces resin composite restorations, which will be presented from a clinical application, composition and handling standpoints. Properties of the adhesive dental biomaterials presented in the course will be discussed as the different types of restorations are introduced. The course is designed to provide the first year dental student with the cognitive knowledge regarding terminology, principles, instruments, materials and techniques utilized in the practice of direct restorative dentistry.

The laboratory course is designed to introduce students to the non-surgical and surgical treatment of dental caries. Students will develop the psychomotor skills required to perform basic direct restorative dentistry procedures to a clinically acceptable level when working in patient simulated position with manikins. The development of these skills will be required for achieving competency in the course. In addition, this course presents contemporary concepts in the practice of direct restorative dentistry, as well as the principles for the preparation and restoration with direct restorative materials. This course introduces resin composite restorations, which will be presented from a clinical application, composition and handling standpoints.