Department of Developmental Sciences

Division of Orthodontics
Courses offered:

**ORTD 312-Introduction to Orthodontics**
Credit: 2 (1 Lec., 2 Pract.) Prerequisite OCLS 311

The course provides students with in-depth knowledge of the biological bases and mechanical principles that govern the practice of orthodontics. Upon completion of this introductory course, students will become familiar with the possible hereditary and environmental factors that may adversely affect the orofacial structures; understand normal and abnormal in the craniofacial growth and development; and identify what is normal in biology and how occlusion is developed and the factors influencing its development that may cause different classes of malocclusion.

**ORTD 411-Orthodontics I**
Credit: 1 (1 Lec., 1 Clin.) Prerequisite Preclinical phase

The course introduces students to the clinical application of craniofacial basic sciences earned in the preclinical stage to orthodontic biomechanics. Students will become familiar with growth and development of the dentofacial structures, biology of tooth movement, and appliances used to improve the dentofacial esthetics and function. The course will enable students to analyze and describe the dentofacial abnormalities and their possible causative factors; formulate a realistic treatment planning relevant to the age and severity of the malocclusion; understand the principles of orthodontic force application and respective tissue reaction; and become familiar with the patient management problems in a medical center or in private practice.

**ORTD 412-Orthodontics II**
Credit: 1 (1 Lec., 1 Clin.) Prerequisite ORTD 411

The course provides students with a strong foundation in the interdisciplinary approach of treating dentofacial deformities, management of cleft lip and palate cases, complications of moving teeth in different directions, and proper selection of treatment modality and timing. At the end of the course, students will be able to assess the severity of malocclusion and dentofacial deformities, clearly state treatment objectives and formulate a realistic treatment planning.

Division of Pediatric and Community Dentistry
Courses offered:

**PEDI 411-Pediatric Dentistry I**
Credit: 2 (1 Lec., 2 Clin.) Prerequisite Preclinical phase

The course is an introduction to the developmental stages of dentition and occlusion, morphological difference between primary and permanent teeth. The study includes the genetic, systemic and local causes of premature and delayed tooth eruption as well as exfoliation. It helps the student understands the mechanism of root resorption and exfoliation and introduces him to common problems associated with the eruption process to help him develop future clinical diagnostic sense. The ways of identification of children with potential occlusal problems, and intercepting them including the use of different habit breaking appliances and different types of space maintainers are also covered.
**PEDI 412-Pediatric Dentistry II**  
Credit: 2 (1 Lec., 2 Clin.) Prerequisite PEDI 411

The course is designed to help the student to recognize the morphologic modifications of cavity preparations in primary teeth and develop the clinical judgment concerning the restorative materials used. Principles of pulp therapy, the concepts, etiologic factors, and clinical picture of nursing and rampant caries are also covered. This course also provides practical and relevant information that help the student to provide recommendations to parents regarding nursing habits to prevent the conditions. Early childhood caries (ECC) and severe early childhood caries (SECC) are also covered with special emphasis on management and prevention of the disease as well as the value of caries risk assessment.

**PEDI 511-Pediatric Dentistry III**  
Credit: 3 (2 Lec., 3 Clin.) Prerequisite PEDI 412

The course represents a substantial foundation for practicing comprehensive dentistry with children. The topics teach the student basic knowledge concerning clinical assessment of the child, diagnosis, treatment plan formulation, various caries activity tests and their role in caries prediction. The course is also designed to help the student recognize the behavioral characteristics of the problem child and implement techniques of behavioral management.

**PEDI 512-Pediatric Dentistry IV**  
Credit: 2 (1 Lec., 3 Clin.) Prerequisite PEDI 511

The course includes gingival and periodontal diseases affecting the child patient from birth through adolescence to help the students identify the condition, readily diagnose it and manage the child patient. It is designed to help the students recognize the management techniques for children with oro-facial traumatic injuries. The course also represents an overview of the various stages of tooth development, anomalies that result in disturbances at each stage of tooth development. The different pathological conditions that might affect the oral and paraoral tissues in children and infants are also covered. It is designed as well to help the student comprehend the different categories of children with special needs. The influence of diet and nutrition on the oral conditions of children are also covered.

**COMD 311-Community Dentistry and Biostatistics**  
Credit: 2 (2 Lec.)

Provides the student with the basic knowledge of the dental health educational program, including principles of motivation communication and education. This course also aims to enable the student to understand the basic concepts of the preventive modalities of dental diseases after the prediction of risky factors and methods of health education. The course presents an overview of basic uses of statistical methods in the analysis and interpretation of oral health research data including descriptive and inferential data analysis. The course also covers the basic epidemiologic aspects of dental caries and periodontal diseases including epidemiology, indices used to measure the condition and the multifactorial aspect of the disease.
ETHB 311-Dental Ethics and Behavioral Sciences
Credit: 1 (1 Lec.)

Provides the student with the rules of conducts that every health provider should respect in his every day professional and personal life. The course allows the students to have an understanding of the ethical and legal codes that prevail on practice of dentistry, in the full respect of the general public law. Patient’s rights are explained together with the dentist’s rights, obligations and behavior towards his patients, colleagues and the public health authorities. A rapid insight is provided on the other duties of the Lebanese Dental Association in protecting the interests and progress of the profession and its practicing members: the internal rules, the committees, the mutual and pension funds together with the operating procedures are presented.