

# Orthodontics (ORTD)

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## Courses

### **ORTD 323. Orthodontics. 2 hours.**

Recognition, etiology, diagnosis and treatment of simple and complex malocclusions, and treatment technics for minor orthodontic problems, in a lecture/laboratory format. Course Information: Prerequisite(s): Enrollment in the Doctor of Dental Surgery program.

### **ORTD 338. Clinical Orthodontics I. 1 hour.**

Active participation in orthodontic clinical procedures. Instruction includes the performance of limited tooth movement. Course Information: Prerequisite(s): ORTD 323.

### **ORTD 348. Clinical Orthodontics II Elective. 1 hour.**

Clinical course in the recognition and diagnosis of malocclusion in both growing patients and adult patients. Instruction includes the performance of limited tooth movement. Course Information: Prerequisite(s): ORTD 338.

### **ORTD 513. Craniofacial Growth and Development. 4 hours.**

Physiology of the stomatognathic system, behavioral development, implications of craniofacial growth and development, reactions of periodontal tissues to applied force and prevalence; causes of malocclusion. Course Information: Prerequisite(s): Matriculation into the Certificate Program in Orthodontics or M.S. in Oral Sciences program.

### **ORTD 521. Methodologies in Craniofacial Research. 1 hour.**

Demonstration and discussion of the techniques and methods employed in the study of the structure, growth and function of the craniofacial region.

### **ORTD 524. Craniofacial Anomalies I. 2 hours.**

Introduction to a variety of orofacial clefts, etiology, clinical presentation, growth and development and habilitation via an interdisciplinary team approach. Longitudinal analysis of cases with cleft lip and palate. Class Schedule Information: To be properly registered, students must enroll in one Laboratory-Discussion and one Lecture-Discussion.

### **ORTD 525. Craniofacial Anomalies II. 1 hour.**

Introduction to treatment aspects of patients with orofacial clefts and to a variety of craniofacial anomalies, their etiology, clinical presentation, growth and development and habilitation through a team approach. Clinical rotations through the Center for Craniofacial Anomalies. Course Information: Prerequisite(s): ORTD 524. Class Schedule Information: To be properly registered, students must enroll in one Laboratory-Discussion and one Lecture-Discussion.

### **ORTD 537. Biostatistics Applied to Craniofacial Research. 2 hours.**

Multivariate statistical techniques applied to craniofacial growth research. Course Information: Prerequisite(s): ORTD 523 and a basic univariate statistics course.

### **ORTD 595. Seminar in Orthodontics. 1-2 hours.**

Presentations by selected guest lecturers on research or clinical material relating to matters of interest to the Department of Orthodontics. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 13 hours. Prerequisite(s): Enrollment in the orthodontics postgraduate or oral sciences graduate program.

### **ORTD 610. Orthodontic Clinic I. 0-10 hours.**

Clinical patient examination, record taking, diagnosis and treatment planning for a variety of pre-selected malocclusions. Orthodontic therapy subsequently follows. Course Information: May be repeated to a maximum of 11 hours. Prerequisite(s): Matriculation into the Advanced Certificate in Orthodontics program.

### **ORTD 611. Orthodontic Technique A. 4 hours.**

Development of manipulative skills for orthodontic practice. Instruction in the biomechanics of orthodontic force systems and application to mechanotherapy. Discussion of various orthodontic treatment strategies. Course Information: Prerequisite(s): Matriculation into the Advanced Certificate in Orthodontics program. Class Schedule Information: To be properly registered, students must enroll in one Laboratory-Discussion and one Lecture-Discussion.

### **ORTD 612. Orthodontic Technique B. 2 hours.**

Continuation of ORTD 611 discussing orthodontic treatment modalities and strategies. Also reviews the historical development of orthodontic appliances. Course Information: Prerequisite(s): ORTD 611.

### **ORTD 615. Diagnostic Procedures I. 0-10 hours.**

A seminar and investigative series to familiarize the student with various diagnostic techniques used in orthodontic case analysis and treatment planning. Course Information: May be repeated to a maximum of 9 hours. Prerequisite(s): Enrollment in the Advanced Certificate in Orthodontics program.

### **ORTD 616. Diagnostic Procedures II. 0-10 hours.**

Presentation and discussion of clinical cases at various stages of orthodontic treatment and post-treatment, utilizing various diagnostic records. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 6 hours. Prerequisite(s): ORTD 615.

### **ORTD 620. Orthodontic Clinic II. 0-10 hours.**

Transfer cases are assigned covering active, retention and posttransfer cases. Screenings are conducted in examination of new patients. Course Information: May be repeated to a maximum of 17 hours. Prerequisite(s): ORTD 610.

### **ORTD 630. Orthodontic Clinic III. 0-10 hours.**

Supervision of patients in all stages of treatment and post-treatment visits. Participation in TMJ and CFA programs and visit to offices of practicing orthodontists. Course Information: May be repeated to a maximum of 16 hours. Prerequisite(s): ORTD 620.

### **ORTD 667. Orthodontic-Periodontic Relationships. 2 hours.**

A seminar series discussing the effects of orthodontic treatment of periodontal tissues; the indications and rationale for performing periodontal procedures as an adjunct to orthodontic therapy; the objectives of orthodontic tooth movement in the adult, especially for periodontal considerations. Course Information: Satisfactory/Unsatisfactory grading only. Prerequisite(s): Satisfactory completion of the first year of the Advanced Certificate in Orthodontics or Advanced Certificate in Periodontics postgraduate program.