

SYLLABUS

ORT 662 - ORTHODONTIC TECHNIQUE

COURSE DIRECTOR: DR. C. MICHAEL STANSBURY

**FIRST YEAR ORTHODONTIC STUDENTS
FIRST YEAR PEDIATRIC DENTISTRY RESIDENTS**

COURSE DESCRIPTION

This is a two credit-hour graduate level course designed to introduce the concept of ideal orthodontic occlusion and to introduce appliance system fabrication techniques used to achieve treatment objectives related to occlusion. Structural components of appliance systems will be fabricated, and then manipulated by application of mechanical forces to the dentition.

COURSE OBJECTIVES

The student will demonstrate an understanding of ideal occlusal relationships and how orthodontic appliance systems are used to achieve treatment objectives. The student will demonstrate competence in manipulating orthodontic materials and will demonstrate an understanding of clinically relevant properties of orthodontic materials.

COURSE EVALUATION

Class attendance will be mandatory. Students will be evaluated by written exam and by evaluation of in-class and out-of-class projects. Any student who fails to demonstrate pre-clinical proficiency will not be granted orthodontic clinic privileges.

All activities in this course are conducted under the College of Dentistry Code. The College has high expectations of each student concerning professional and academic responsibilities, including self-governance. If you have questions about expected standards of behavior, it is your responsibility to discuss and clarify these questions with the course director.

ORT 662
 ORTHODONTIC TECHNIQUE
 COURSE DIRECTOR: DR. C. MICHAEL STANSBURY
 COURSE SCHEDULE

LECTURE	LAB
Instrumentation and Clinical Procedures	Appliance Removal
Concept of Ideal Occlusion	Bonding and Impressions for fixed holding arches and palatal expansion appliance
<u>Assignment</u> : Holding arch, RPE fabrication, Reading Assignment TBA	
Headgear fabrication and utilization	Headgear placement and adjustment
Appliance Design and Fabrication	Appliance Placement for Class I Malocclusion
<u>Assignment</u> : wire bending, Reading Assignment TBA	
Introduction to Physical Metallurgy and Material Science	Leveling and Alignment of Class I Malocclusion
Anchorage	Establish Class I posterior occlusion
<u>Assignment</u> : wire bending, Reading Assignment TBA	
Introduction to Physical Metallurgy and Material Science	Treatment of Class I Malocclusion
Engineering Considerations in Archwire Selection	Treatment of Class I Malocclusion
<u>Assignment</u> : wire bending, Reading Assignment TBA	
Sectional Archwire and 2x4 Mechanics (Dr. Beeman)	Treatment of Class I Malocclusion

<u>Midterm Exam</u>	Treatment of Class I Malocclusion
<u>Assignment:</u> wire bending, Reading Assignment TBA	
Finishing Procedures	Finish Class I Malocclusion Tx
ABO Grading Systems	Grading of treatment, Start Class II treatment
<u>Assignment:</u> wire bending, Reading Assignment TBA	
Introduction to Physical Metallurgy and Material Science	Treatment of Class II Malocclusion
Superelasticity	Treatment of Class II Malocclusion
<u>Assignment:</u> wire bending, Reading Assignment TBA	
Class II Treatment Considerations	Treatment of Class II Malocclusion
Class II Treatment Considerations	Treatment of Class II Malocclusion
<u>Assignment:</u> wire bending, Reading Assignment TBA	
Physical Metallurgy and Material Science Review	Treatment of Class II Malocclusion
Treatment Mechanics Review	Finish Class II treatment, grading treatment
<u>Assignment:</u> wire bending, Reading Assignment TBA	
<u>Final Exam</u>	
OPEN	