DEPARTMENT OF ORTHODONTICS

Our Mission

The Advanced Education Program in Orthodontics (http://dentistry.tamhsc.edu/orthodontics) has as its mission to educate dentists in the specialty of Orthodontics in accordance with the guidelines set forth in the Standards for Advanced Specialty Education Programs prepared by the American Dental Association Commission on Accreditation and the American Association of Orthodontists.

Our Objective

To provide the student with a well-balanced educational experience, integrating a strong foundation in the basic sciences with a diverse clinical experience.

To graduate a specialist with the highly refined analytical, clinical, and management skills necessary to provide optimum oral health care.

Our Philosophy

The philosophy of the Graduate Orthodontic Program at the College of Dentistry is to prepare students for clinical practice in the specialty of orthodontics. Since this residency requires scientific research, culminating in an MS in Oral Biology, our graduates develop critical thinking skills, while making significant contributions to the art and science of the specialty of orthodontics. Our goal is to impart in-depth knowledge of the biological and mechanical principles governing the practice of orthodontics and to allow students to develop excellent proficiency in orthodontics while treating a wide variety of malocclusions using multiple techniques. This expertise will be accomplished utilizing a variety of philosophies of diagnosis and treatment from a diverse faculty of approximately 25 outstanding practitioners and educators. Obviously the most important ancillary mission of the educational process at the College of Dentistry is to deliver quality orthodontic care for our patients.

Faculty

Adams, Terry B, Adjunct Assistant Professor Orthodontics
MS, Baylor College of Dentistry, 1978
DDS, University of Missouri, 1973

Brock, Ralph A, Adjunct Assistant Professor Orthodontics
MS, Texas A&M University, 2002
DDS, Meharry Medical College, 2000

Buschang, Peter H, Professor Orthodontics
PHD, The University of Texas at Austin, 1980

Cai, Zhuo, Adjunct Assistant Professor Orthodontics
PHD, The Ohio State University, 1996
DDS, Beijing Medical University, 1987

Campbell, Phillip M, Clinical Associate Professor Orthodontics
MS, Baylor University College of Dentistry, 1973
DDS, Baylor University College of Dentistry, 1971

Carrillo, Roberto, Adjunct Assistant Professor Orthodontics
MS, Texas A&M Baylor College of Dentistry, 2005
DDS, Universidad Autonoma de Nuevo Leon, 2002

Ceen, Richard F, Adjunct Professor Orthodontics
CERT, Columbia University, 1972
DDS, University of Tennessee Health Science Center, 1966

Cohen, Glenn T, Adjunct Assistant Professor Orthodontics
MS, Texas A&M Baylor College of Dentistry, 2009
DMD, University of Florida, 2007

Collins, Monte K, Adjunct Assistant Professor Orthodontics
MS, Baylor College of Dentistry, 1986
DDS, Baylor College of Dentistry, 1984

Cope, Jason B, Adjunct Assistant Professor Orthodontics
DDS, Baylor College of Dentistry, 1995

Cope, Jason B, Adjunct Assistant Professor Orthodontics
FRDS, Baylor College of Dentistry, 1995

Frech, Devek K, Adjunct Assistant Professor Orthodontics
MS, University of Washington, 1988
DDS, Baylor College of Dentistry, 1986

Geller, Mark S, Adjunct Assistant Professor Orthodontics
MS, Baylor College of Dentistry, 1975
DDS, Baylor College of Dentistry, 1973

Genecov, Jeffrey S, Adjunct Assistant Professor Orthodontics
MS, Baylor College of Dentistry, 1987
DDS, Baylor College of Dentistry, 1985

Jing, Yan, Research Assistant Professor Orthodontics
PHD, Sichuan University, 2014

Julien, Katie C, Clinical Assistant Professor Orthodontics
MS, Baylor College of Dentistry, 1994
DDS, Baylor College of Dentistry, 1992

McBride, Matthew D, Adjunct Assistant Professor Orthodontics
MS, Baylor College of Dentistry, 2012
DDS, Baylor College of Dentistry, 2008

Myser, Scott A, Adjunct Assistant Professor Orthodontics
MS, Baylor College of Dentistry, 2010
DDS, Baylor College of Dentistry, 2008
Polson, James R, Adjunct Assistant Professor
Orthodontics
DDS, The University of Texas Health Science Center at San Antonio, 1986

Stephens, Claude R, Adjunct Assistant Professor
Orthodontics
DDS, Texas A&M University, 1981

Stephens, Marvin G, Adjunct Assistant Professor
Orthodontics
MS, Baylor College of Dentistry, 1973
DDS, Baylor College of Dentistry, 1971

Tadlock, Larry P, Clinical Assistant Professor
Orthodontics
MS, The University of Texas Health Science Center at Houston, 1988
DDS, Baylor College of Dentistry, 1984

Taylor, Reginald W, Associate Professor
Orthodontics
DMD, Harvard School of Dental Medicine, 1992
DMD, Harvard School of Dental Medicine, 1987

Tipton, Nadene J, Adjunct Assistant Professor
Orthodontics
MS, Texas A&M University, 1996
DDS, Texas A&M Baylor College of Dentistry, 1992

Valant, John R, Adjunct Assistant Professor
Orthodontics
MS, Texas A&M Baylor College of Dentistry, 1987
DDS, Loyola University, Chicago, 1979

Certificates
- Orthodontics Certificate (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/dentistry/orthodontics/orthodontics-certificate)

Courses
ORTH 600 Orthodontic-Periodontic Seminar
Credits 0.5-0.5 Other Hours.
An interdisciplinary course directed at topics relevant to orthodontics and periodontics. The effect of orthodontics on the supporting tissues, oral hygiene and periodontal assessment, and interdisciplinary approaches to treatment are topics of discussion.

ORTH 601 TMD Clinic I
Credits 0. 0 Other Hours.
A series of lectures, guest speakers, demonstrations, laboratory exercises and patient care activities are conducted to enable the student to diagnosis, plan treatment and treat patients with occlusal discrepancies, compromised muscle function and TMJ abnormalities.

ORTH 602 TMD Clinic II
Credits 0. 0 Other Hours.
A series of lectures, guest speakers, demonstrations, laboratory exercises and patient care activities are conducted to enable the student to diagnosis, plan treatment and treat patients with occlusal discrepancies, compromised muscle function and TMJ abnormalities.

ORTH 603 TMD Clinic III
Credits 0. 0 Other Hours.
A series of lectures, guest speakers, demonstrations, laboratory exercises and patient care activities are conducted to enable the student to diagnosis, plan treatment and treat patients with occlusal discrepancies, compromised muscle function and TMJ abnormalities.

ORTH 604 TMD Clinic IV
Credits 0. 0 Other Hours.
A series of lectures, guest speakers, demonstrations, laboratory exercises and patient care activities are conducted to enable the student to diagnosis, plan treatment and treat patients with occlusal discrepancies, compromised muscle function and TMJ abnormalities.

ORTH 605 TMD Clinic V
Credits 0. 0 Other Hours.
A series of lectures, guest speakers, demonstrations, laboratory exercises and patient care activities are conducted to enable the student to diagnosis, plan treatment and treat patients with occlusal discrepancies, compromised muscle function and TMJ abnormalities.

ORTH 606 Craniofacial Anomalies Clinic I
Credits 0. 0 Other Hours.
During the second and third years, students rotate through the local children's hospital for the purpose of participating in the treatment of patients with a wide array of syndromes and craniofacial defects. From newborn to adult, a large number of patients are treated. Orthodontics is integrated with plastic surgery in this clinic.

ORTH 607 Craniofacial Anomalies Clinic II
Credits 0. 0 Other Hours.
During the second and third years, students rotate through the local children's hospital for the purpose of participating in the treatment of patients with a wide array of syndromes and craniofacial defects. From newborn to adult, a large number of patients are treated. Orthodontics is integrated with plastic surgery in this clinic.

ORTH 608 Craniofacial Anomalies Clinic III
Credits 0. 0 Other Hours.
During the second and third years, students rotate through the local children's hospital for the purpose of participating in the treatment of patients with a wide array of syndromes and craniofacial defects. From newborn to adult, a large number of patients are treated. Orthodontics is integrated with plastic surgery in this clinic.

ORTH 609 Craniofacial Anomalies Clinic IV
Credits 0. 0 Other Hours.
During the second and third years, students rotate through the local children's hospital for the purpose of participating in the treatment of patients with a wide array of syndromes and craniofacial defects. From newborn to adult, a large number of patients are treated. Orthodontics is integrated with plastic surgery in this clinic.

ORTH 610 Biomechanics I
Credits 0.5-1. 0.5-1 Lecture Hours.
5-1. Mechanical principles and biological factors affecting tooth movement, introduction to forces, statics, and dynamics, scalars and vectors, and analysis of force systems. Force and movement; basic concepts fundamental to an understanding of tooth movement.

ORTH 611 Biomechanics II
Credits 0.5-1. 0.5-1 Lecture Hours.
5-1. Mechanical principles and biological factors affecting tooth movement, introduction to forces, statics, and dynamics, scalars and vectors, and analysis of force systems. Force and movement; basic concepts fundamental to an understanding of tooth movement.
ORTH 612 Material Science in Orthodontics  
Credits 0.5-1. 0.5-1 Lecture Hours.  
5-1. Evaluation and utilization of dental materials used in clinical orthodontics.

ORTH 613 Advanced Cephalometrics  
Credit 1. 1 Lecture Hour.  
Advanced topics relating to the cephalometric technique are presented, including superimposition, growth and treatment prediction, treatment assessment, consideration of error, orthognathic surgery treatment planning, and image enhancement techniques.

ORTH 614 Orthognathic Surgery Conference I  
Credits 0 to 10. 0 to 10 Other Hours.  
This seminar/conference series involves the departments of Orthodontics and Oral and Maxillofacial Surgery in a multidisciplinary approach to the treatment of those patients with substantial craniofacial deformities. The course begins in the first year with a series of lectures/seminars on specific diagnostic and treatment procedures, followed by assignment of patients that will be supervised jointly by both specialties. Regular conferences are held to discuss pertinent literature, review patient progress, plan treatment and present completed cases. Each student is involved in all phases of treatment: presurgical orthodontics, the surgical procedure, finishing and retention.

ORTH 615 Orthognathic Surgery Conference II  
Credits 0 to 10. 0 to 10 Other Hours.  
This seminar/conference series involves the departments of Orthodontics and Oral and Maxillofacial Surgery in a multidisciplinary approach to the treatment of those patients with substantial craniofacial deformities. The course begins in the first year with a series of lectures/seminars on specific diagnostic and treatment procedures, followed by assignment of patients that will be supervised jointly by both specialties. Regular conferences are held to discuss pertinent literature, review patient progress, plan treatment and present completed cases. Each student is involved in all phases of treatment: presurgical orthodontics, the surgical procedure, finishing and retention.

ORTH 616 Orthognathic Surgery Conference III  
Credits 0 to 10. 0 to 10 Other Hours.  
This seminar/conference series involves the departments of Orthodontics and Oral and Maxillofacial Surgery in a multidisciplinary approach to the treatment of those patients with substantial craniofacial deformities. The course begins in the first year with a series of lectures/seminars on specific diagnostic and treatment procedures, followed by assignment of patients that will be supervised jointly by both specialties. Regular conferences are held to discuss pertinent literature, review patient progress, plan treatment and present completed cases. Each student is involved in all phases of treatment: presurgical orthodontics, the surgical procedure, finishing and retention.

ORTH 617 Orthognathic Surgery Conference IV  
Credits 0 to 10. 0 to 10 Other Hours.  
This seminar/conference series involves the departments of Orthodontics and Oral and Maxillofacial Surgery in a multidisciplinary approach to the treatment of those patients with substantial craniofacial deformities. The course begins in the first year with a series of lectures/seminars on specific diagnostic and treatment procedures, followed by assignment of patients that will be supervised jointly by both specialties. Regular conferences are held to discuss pertinent literature, review patient progress, plan treatment and present completed cases. Each student is involved in all phases of treatment: presurgical orthodontics, the surgical procedure, finishing and retention.

ORTH 618 Orthognathic Surgery Conference V  
Credits 0. 0 Other Hours.  
This is a seminar course in which senior orthodontic and oral surgery residents work jointly to diagnose and treatment plan patients who are anticipating combined orthodontic/orthognathic surgery treatment to correct a dental/skeletal imbalance. The diagnosis and treatment plan(s) will be presented to the residents from both programs as well as attending faculty for critique and evaluation.

ORTH 619 Orthognathic Surgery Conference VI  
Credits 0. 0 Other Hours.  
This is a seminar course in which senior orthodontic and oral surgery residents work jointly to diagnose and treatment plan patients who are anticipating combined orthodontic/orthognathic surgery treatment to correct a dental/skeletal imbalance. The diagnosis and treatment plan(s) will be presented to the residents from both programs as well as attending faculty for critique and evaluation.

ORTH 620 Orthognathic Surgery Seminar  
Credits 0.5. 0.5 Other Hours.  
Surgical rotations in Oral and Maxillofacial Surgery.

ORTH 621 Clinical Specialty Seminars I  
Credits 0 to 3. 0 to 3 Other Hours.  
This series of courses is a companion to clinical training in orthodontics and involves faculty and student evaluation of historically significant as well as contemporary literature. In other sessions, lectures and seminars complement the clinic experience with topics including patient management, treatment of variously aged patients and types of malocclusions, and various types of orthodontic and orthopedic appliances. The students also are exposed to the historical development of orthodontics, additional treatment philosophies through guest speakers and new developments in treatment. Students present their cases through descriptions of diagnosis, treatment planning and treatment results.

ORTH 622 Clinical Specialty Seminars II  
Credits 0 to 3. 0 to 3 Other Hours.  
This series of courses is a companion to clinical training in orthodontics and involves faculty and student evaluation of historically significant as well as contemporary literature. In other sessions, lectures and seminars complement the clinic experience with topics including patient management, treatment of variously aged patients and types of malocclusions, and various types of orthodontic and orthopedic appliances. The students also are exposed to the historical development of orthodontics, additional treatment philosophies through guest speakers and new developments in treatment. Students present their cases through descriptions of diagnosis, treatment planning and treatment results.

ORTH 623 Clinical Specialty Seminars III  
Credits 0 to 3. 0 to 3 Other Hours.  
This series of courses is a companion to clinical training in orthodontics and involves faculty and student evaluation of historically significant as well as contemporary literature. In other sessions, lectures and seminars complement the clinic experience with topics including patient management, treatment of variously aged patients and types of malocclusions, and various types of orthodontic and orthopedic appliances. The students also are exposed to the historical development of orthodontics, additional treatment philosophies through guest speakers and new developments in treatment. Students present their cases through descriptions of diagnosis, treatment planning and treatment results.
ORTH 624 Clinical Specialty Seminars IV
Credits 0 to 10. 0 to 10 Other Hours.
This series of courses is a companion to clinical training in orthodontics and involves faculty and student evaluation of historically significant as well as contemporary literature. In other sessions, lectures and seminars complement the clinic experience with topics including patient management, treatment of variously aged patients and types of malocclusions, and various types of orthodontic and orthopedic appliances. The students also are exposed to the historical development of orthodontics, additional treatment philosophies through guest speakers and new developments in treatment. Students present their cases through descriptions of diagnosis, treatment planning and treatment results.

ORTH 625 Clinical Specialty Seminars V
Credits 0 to 10. 0 to 10 Other Hours.
This series of courses is a companion to clinical training in orthodontics and involves faculty and student evaluation of historically significant as well as contemporary literature. In other sessions, lectures and seminars complement the clinic experience with topics including patient management, treatment of variously aged patients and types of malocclusions, and various types of orthodontic and orthopedic appliances. The students also are exposed to the historical development of orthodontics, additional treatment philosophies through guest speakers and new developments in treatment. Students present their cases through descriptions of diagnosis, treatment planning and treatment results.

ORTH 626 Clinical Specialty Seminars VI
Credits 0 to 10. 0 to 10 Other Hours.
This series of courses is a companion to clinical training in orthodontics and involves faculty and student evaluation of historically significant as well as contemporary literature. In other sessions, lectures and seminars complement the clinic experience with topics including patient management, treatment of variously aged patients and types of malocclusions, and various types of orthodontic and orthopedic appliances. The students also are exposed to the historical development of orthodontics, additional treatment philosophies through guest speakers and new developments in treatment. Students present their cases through descriptions of diagnosis, treatment planning and treatment results.

ORTH 627 Clinical Specialty Seminars VII
Credits 0 to 10. 0 to 10 Other Hours.
This series of courses is a companion to clinical training in orthodontics and involves faculty and student evaluation of historically significant as well as contemporary literature. In other sessions, lectures and seminars complement the clinic experience with topics including patient management, treatment of variously aged patients and types of malocclusions, and various types of orthodontic and orthopedic appliances. The students also are exposed to the historical development of orthodontics, additional treatment philosophies through guest speakers and new developments in treatment. Students present their cases through descriptions of diagnosis, treatment planning and treatment results.

ORTH 628 Clinical Specialty Seminars VIII
Credits 0 to 10. 0 to 10 Other Hours.
This series of courses is a companion to clinical training in orthodontics and involves faculty and student evaluation of historically significant as well as contemporary literature. In other sessions, lectures and seminars complement the clinic experience with topics including patient management, treatment of variously aged patients and types of malocclusions, and various types of orthodontic and orthopedic appliances. The students also are exposed to the historical development of orthodontics, additional treatment philosophies through guest speakers and new developments in treatment. Students present their cases through descriptions of diagnosis, treatment planning and treatment results.

ORTH 629 Clinical Specialty Seminars IX
Credits 0 to 10. 0 to 10 Other Hours.
This series of courses is a companion to clinical training in orthodontics and involves faculty and student evaluation of historically significant as well as contemporary literature. In other sessions, lectures and seminars complement the clinic experience with topics including patient management, treatment of variously aged patients and types of malocclusions, and various types of orthodontic and orthopedic appliances. The students also are exposed to the historical development of orthodontics, additional treatment philosophies through guest speakers and new developments in treatment. Students present their cases through descriptions of diagnosis, treatment planning and treatment results.

ORTH 630 Advanced Orthodontic Practice Management I
Credits 0 to 2. 0 to 2 Lecture Hours.
This course considers the ethical approach to practice promotion and professional interactions in addition to the basic principles of office management. The latter include consideration of staff selection, office design, accounting methods, insurance considerations, inventory control and financial planning.

ORTH 631 Advanced Orthodontic Practice Management II
Credits 0 to 2. 0 to 2 Lecture Hours.
This course considers the ethical approach to practice promotion and professional interactions in addition to the basic principles of office management. The latter include consideration of staff selection, office design, accounting methods, insurance considerations, inventory control and financial planning.

ORTH 632 Principles of Scientific Methodology/Thesis Protocol
Credits 0.5. 0.5 Lecture Hours.
Basic precepts of research and the methodology of critical literature review in preparation of a research proposal.

ORTH 633 Scientific Writing
Credits 0.5. 0.5 Other Hours.
A series of courses designed to assist the student in the preparation of a research proposal, a proposal to secure extramural funding and the thesis. When the research is concluded, instruction is given to enable the preparation of a manuscript suitable for publication.

ORTH 634 Independent Research I
Credits 0 to 10. 0 to 10 Other Hours.
Activity related to definition of a research problem, searching the literature, conducting the research, analyzing the results and preparing the thesis.
ORTH 635 Independent Research II  
Credits 0 to 10. 0 to 10 Other Hours.  
Activity related to definition of a research problem, searching the literature, conducting the research, analyzing the results and preparing the thesis.

ORTH 636 Independent Research III  
Credits 0 to 10. 0 to 10 Other Hours.  
Activity related to definition of a research problem, searching the literature, conducting the research, analyzing the results and preparing the thesis.

ORTH 637 Independent Research-Manuscript Development I  
Credits 0 to 2. 0 Lecture Hours. 0 to 2 Other Hours.  
The course provides the guidance and time necessary for the residents to successfully complete the journal article summarizing the methods and results of their Master’s research projects. Orthodontic residents should endeavor to publish their research projects. To that end, they need to know how to prepare their work for publication. Publication requires a good understanding of the IMRAD structure. By working closely with their mentors, committees and Dr. Buschang, the residents will learn how to outline the manuscript, prepare tables and figures, and write the text of the manuscript. This will be accomplished primarily by one-to-one interactions with Dr. Buschang.

ORTH 638 Independent Research-Manuscript Development II  
Credits 0 to 2. 0 Lecture Hours. 0 to 2 Other Hours.  
The course provides the guidance and time necessary for the residents to successfully complete the journal article summarizing the methods and results of their Master’s research projects. Orthodontic residents should endeavor to publish their research projects. To that end, they need to know how to prepare their work for publication. Publication requires a good understanding of the IMRAD structure. By working closely with their mentors, committees and Dr. Buschang, the residents will learn how to outline the manuscript, prepare tables and figures, and write the text of the manuscript. This will be accomplished primarily by one-to-one interactions with Dr. Buschang.

ORTH 639 Independent Research-Manuscript Development III  
Credits 0 to 2. 0 to 2 Other Hours.  
The course provides the guidance and time necessary for the residents to successfully complete the journal article summarizing the methods and results of their Master’s research projects. Orthodontic residents should endeavor to publish their research projects. To that end, they need to know how to prepare their work for publication. Publication requires a good understanding of the IMRAD structure. By working closely with their mentors, committees and Dr. Buschang, the residents will learn how to outline the manuscript, prepare tables and figures, and write the text of the manuscript. This will be accomplished primarily by one-to-one interactions with Dr. Buschang.

ORTH 640 Introduction to Orthodontics I  
Credits 0.50 to 1.5. 0.50 to 1.5 Lecture Hours.  
A course covering the basic topics related to the specialty of orthodontics. This series of lectures covers material presented in a textbook directed toward graduate education.

ORTH 641 Introduction to Orthodontics II  
Credits 0.50 to 1.5. 0.50 to 1.5 Lecture Hours.  
A course covering the basic topics related to the specialty of orthodontics. This series of lectures covers material presented in a textbook directed toward graduate education.

ORTH 642 Introduction to Orthodontics III  
Credits 1 to 2. 1 to 2 Lecture Hours.  
Courses covering the basic topics related to the specialty of orthodontics. This series of lectures covers material presented in textbooks directed toward graduate education.

ORTH 643 Introduction to Orthodontics IV  
Credits 1 to 2. 1 to 2 Lecture Hours.  
Courses covering the basic topics related to the specialty of orthodontics. This series of lectures covers material presented in textbooks directed toward graduate education.

ORTH 644 Introduction to Cephalometrics (Advanced Cephalometrics)  
Credit 1. 0.5 Lecture Hours. 0.5 Lab Hours.  
This course provides a thorough understanding of craniofacial radiographic techniques with emphasis on cephalometric roentgenography. This course is designed to acquaint the student with the use of X-rays, radiation hygiene, pathology and cephalometric techniques to assure proficiency in technical skills and in interpretation as needed for diagnostic procedures. This course includes both lecture and laboratory instruction.

ORTH 645 Craniofacial Growth and Development  
Credits 1 to 1.5. 1 to 1.5 Lecture Hours.  
5. The clinical implications of changes in craniofacial form and function are presented. A critical review of the literature is conducted relating knowledge of facial growth and clinical practice.

ORTH 646 Orthodontic Techniques  
Credits 2. 2 Other Hours.  
This offering includes basic preclinical exercises designed to prepare the student for clinical practice. A series of exercises are performed involving wire bending, soldering, impressions and model trimming, and the manipulation of acrylic. An edgewise course is conducted on typodonts simulating the treatment of various malocclusions.

ORTH 647 Clinical Orthodontics I  
Credits 0 to 10. 0 to 10 Other Hours.  
Diagnosis and treatment of patients with a broad variety of malocclusions. Patient with typical malocclusions and requiring early treatment, dentofacial orthopedics, orthognathic surgery, and interdisciplinary care are selected as educational models. Techniques focus on standard edgewise technique including pretorqued and preangled brackets and lingual orthodontics.

ORTH 648 Clinical Orthodontics II  
Credits 0 to 10. 0 to 10 Other Hours.  
Diagnosis and treatment of patients with a broad variety of malocclusions. Patient with typical malocclusions and requiring early treatment, dentofacial orthopedics, orthognathic surgery, and interdisciplinary care are selected as educational models. Techniques focus on standard edgewise technique including pretorqued and preangled brackets and lingual orthodontics.

ORTH 649 Clinical Orthodontics III  
Credits 0 to 10. 0 to 10 Other Hours.  
Diagnosis and treatment of patients with a broad variety of malocclusions. Patient with typical malocclusions and requiring early treatment, dentofacial orthopedics, orthognathic surgery, and interdisciplinary care are selected as educational models. Techniques focus on standard edgewise technique including pretorqued and preangled brackets and lingual orthodontics.
ORTH 650 Clinical Orthodontics IV
Credits 0 to 10. 0 to 10 Other Hours.
Diagnosis and treatment of patients with a broad variety of malocclusions. Patients with typical malocclusions requiring early treatment, dentofacial orthopedics, orthognathic surgery, and interdisciplinary care are selected. Emphasis is on the edgewise appliances system with its many variations including pretorqued and preangled brackets, self-ligation systems and lingual orthodontics.

ORTH 651 Clinical Orthodontics V
Credits 0 to 10. 0 to 10 Other Hours.
Diagnosis and treatment of patients with a broad variety of malocclusions. Patients with typical malocclusions requiring early treatment, dentofacial orthopedics, orthognathic surgery, and interdisciplinary care are selected. Emphasis is on the edgewise appliances system with its many variations including pretorqued and preangled brackets, self-ligation systems and lingual orthodontics.

ORTH 652 Clinical Orthodontics VI
Credits 0 to 10. 0 to 10 Other Hours.
Diagnosis and treatment of patients with a broad variety of malocclusions. Patients with typical malocclusions requiring early treatment, dentofacial orthopedics, orthognathic surgery, and interdisciplinary care are selected. Emphasis is on the edgewise appliances system with its many variations including pretorqued and preangled brackets, self-ligation systems and lingual orthodontics.

ORTH 653 Clinical Orthodontics VII
Credits 1 to 3. 1 to 3 Other Hours.
Clinical Orthodontics entails the core clinical education of the orthodontic program. Treatment of malocclusions requiring early treatment, dentofacial orthopedics, orthognathic surgery and multidisciplinary care are selected as educational models. Clinical Orthodontics follows a structured, yet flexible, course outline to ensure that the resident becomes familiar with all aspects of contemporary clinical practice as presented by the various well-qualified clinical instructors. It is envisaged that no one treatment technique or philosophy will outrank another; a complete orthodontic education is of the essence. A broad range of appliance usage is taught ranging from removable appliances to the more sophisticated fixed preangled brackets and lingual orthodontics (018 and 022). The clinics include the screening of potential orthodontic patients, underlying the importance of obtaining ABO standard clinical records, complete case diagnosis, case analysis, treatment techniques, individualization of appliances, evidence-based treatment procedures, a pursuit of ABO treatment outcomes, as well as proven retention protocols. Furthermore, the course also places an emphasis on the attendance of continuing in orthodontic private practice; a philosophy of continued learning is encouraged. This clinical course provides an opportunity to consolidate the basic principles of case analysis and treatment planning, communication between clinician and patient, as well as interaction between different specialties to ensure competency in multidisciplinary treatment. Planning for long-term esthetic, healthy, functional and stable treatment is the order of the day.

ORTH 654 Clinical Orthodontics VIII
Credits 1 to 3. 1 to 3 Other Hours.
Clinical Orthodontics entails the core clinical education of the orthodontic program. Treatment of malocclusions requiring early treatment, dentofacial orthopedics, orthognathic surgery and multidisciplinary care are selected as educational models. Clinical Orthodontics follows a structured, yet flexible, course outline to ensure that the resident becomes familiar with all aspects of contemporary clinical practice as presented by the various well-qualified clinical instructors. It is envisaged that no one treatment technique or philosophy will outrank another; a complete orthodontic education is of the essence. A broad range of appliance usage is taught ranging from removable appliances to the more sophisticated fixed preangled brackets and lingual orthodontics (018 and 022). The clinics include the screening of potential orthodontic patients, underlying the importance of obtaining ABO standard clinical records, complete case diagnosis, case analysis, treatment techniques, individualization of appliances, evidence-based treatment procedures, a pursuit of ABO treatment outcomes, as well as proven retention protocols. Furthermore, the course also places an emphasis on the attendance of continuing in orthodontic private practice; a philosophy of continued learning is encouraged. This clinical course provides an opportunity to consolidate the basic principles of case analysis and treatment planning, communication between clinician and patient, as well as interaction between different specialties to ensure competency in multidisciplinary treatment. Planning for long-term esthetic, healthy, functional and stable treatment is the order of the day.

ORTH 655 Clinical Orthodontics IX
Credits 1 to 3. 1 to 3 Other Hours.
Clinical Orthodontics entails the core clinical education of the orthodontic program. Treatment of malocclusions requiring early treatment, dentofacial orthopedics, orthognathic surgery and multidisciplinary care are selected as educational models. Clinical Orthodontics follows a structured, yet flexible, course outline to ensure that the resident becomes familiar with all aspects of contemporary clinical practice as presented by the various well-qualified clinical instructors. It is envisaged that no one treatment technique or philosophy will outrank another; a complete orthodontic education is of the essence. A broad range of appliance usage is taught ranging from removable appliances to the more sophisticated fixed preangled brackets and lingual orthodontics (018 and 022). The clinics include the screening of potential orthodontic patients, underlying the importance of obtaining ABO standard clinical records, complete case diagnosis, case analysis, treatment techniques, individualization of appliances, evidence-based treatment procedures, a pursuit of ABO treatment outcomes, as well as proven retention protocols. Furthermore, the course also places an emphasis on the attendance of continuing in orthodontic private practice; a philosophy of continued learning is encouraged. This clinical course provides an opportunity to consolidate the basic principles of case analysis and treatment planning, communication between clinician and patient, as well as interaction between different specialties to ensure competency in multidisciplinary treatment. Planning for long-term esthetic, healthy, functional and stable treatment is the order of the day.

ORTH 689 Special Topics In...
Credits 0 to 4. 0 to 4 Other Hours.
Selected topics in an identified area of orthodontics. May be repeated for credit.

ORTH 691 Research
Credits 0 to 10. 0 to 10 Other Hours.
Research for thesis or dissertation.