Academic Year (AY): 2019-20; Year 1 (R1)

Course #	Course Title			
ADE 800	Fundamentals in Orthodontics			
ADE 810-1	Predinical Orthodontic Smulation Laboratory & Bootcamp	3		
ADE 812	Diagnosis, Treatment Planning I	3		
ADE 813	Clinical Seminars I	8		
ADE 814	Clinical Orthodontics I	32		
ADE 815	Seminars In Contemporary Orthodontics I	3		
ADE 816	Biomechanics & Biomaterials I	2		
ADE 817	Classic and Current Literature Review I	2		
ADE 828	Functional and Orthopedic Appliances	2		
ADE 910	Introduction to Roseman, CDM & AEODO/MBA Program	2		
ADE 912	2D and 3D Craniofacial Imaging	2		
ADE 913	Research I	15		
ADE 915	Biostatistics & Research Methodology I	2		
ADE 916	Graduate Teaching I	1		
ADE917	Community Outreach I	2		
ADE 939	Orthodontic Appliance Design & Fabrication I	2		
MBA 602	Healthcare Management	3		
MBA 645	Business Ethics and Practices in Healthcare	3		
	Total Credits	89		

Academic Year (AY): 2020-21; Year 2 (R2)

Course #	Course Title	# of Credits
ADE833	Clinical Seminars II	6
ADE834	Ginical Orthodontics II	34
ADE835	Seminars in Contemporary Orthodontics II	3
ADE837	Classic and Current Literature Review II	2
ADE838	Cephalometrics II	2
ADE850	ABO Written Examination	2
ADE 926	Craniofacial Growth and Development	2
ADE 930	Functional Occlusion & Temporomandibular Disorders	2
ADE 932	Biomedical Sciences	4
ADE 933	Research II	12
ADE 935	Biostatistics & Research Methodology II	2
ADE 936	Graduate Teaching II	1
ADE 937	Community Outreach II	2

# AEODO/MBA Residency Progr

#### residents.

#### ADE 816: Biomechanics & Biomaterials I

This block provides lectures in fundamentals of physics and engineering and their application in orthodontic techniques. A thorough presentation of the biology of tooth movement is presented, as well as mechanotherapy in various orthodontic techniques and critical evaluation of biomechanical concepts and materials leading to efficient tooth movement.

#### ADE 817 & 837: Classic and Current Literature Review (I & II)

This course will encourage the residents to critically review, understand and analyze classic and current literature in orthodontics, including classification of study design, hypothesis testing, scientific writing, analysis and interpretation of data, and orthodontics and craniofacial biology throughout their education. This course will be instrumental in preparation of the residents for the American Board of Orthodontics certification examination.

#### ADE 838: Cephalometrics II

This is a course aimed at a thorough understanding of the craniofacial radiographic techniques, with emphasis on historical as well as contemporary uses of 2D and 3D cephalometric radiography. This course will introduce the residents to the clinical uses of cephalometrics for orthodontic diagnosis and treatment planning using the latest available technology.

#### ADE 828: Functional and Orthopedic Appliances

This informative course will familiarize the residents with the design, theoretical indications, and clinical application of various craniofacial orthopedic devices, including but not limited to: various types of headgear appliances, chin cups and numerous functional appliance. The residents will also review pertinent literature to learn the history and current theories of use for such devices.

#### ADE 850: American Board of Orthodontics Written Examination

#### This block is a two-

American Board of Orthodontics Written Examination and culminates in the examination in the early summer of their second year of education. Residents must successfully complete this examination in order to pass the course and subsequently be eligible for graduation.

#### ADE 860: American Board of Orthodontics Clinical Examination Advanced Course

This innovative and contemporary block will expose the residents to the latest tools and technology in tooth movement. Residents will learn the theoretical and conceptual facts as well as dinical and real-life utilization of

as digital imaging and cone beam computerized tomography, and their utilization in diagnosis and treatment of patients in any area of oral health.

ADE 913, 933 & 953: Research (I, II & III)

Residents will work with faculty mentors in carrying out meaningful graduate level research projects. The projects will involve critical components of literature review, hypothesis generation, defend their project; conduct the study; analysis and interpretation of data and summarizing the project in the form of a final

lead to a scientific paper submitted for publication in a peer reviewed journal.

ADE 915 & 935: Biostatistics & Research Methodology (I & II)

### Oral Pathology

Neoplasia and Diseases of Systems

Pain Management

Emphasis in this block is placed on diseases of the oral cavity, with a thorough review of the genetic, clinical and radiographic signs and markers for each disease. Residents will be expected to fully comprehend the most common pathologies encountered by oral health care providers, including diagnosis and treatment options for such pathologies.

ADE 938: Management and Treatment of Craniofacial Anomalies I

This block will provide a thorough review of various recognized craniofacial anomalies, with emphasis placed on etiology, morphology, development and clinical management for each anomaly. The residents will also be

specialists in the interdisciplinary management and treatment of such complex cases. The block will consist of lectures and case presentation se102r(n)-4e1 0 0 reclat-3(e)4(n)-4(t)-4(r)-2(b)-4(h)-4(e)4(i)-8(ar)-2(iou)-6(s)-6(r)-7(ro)-3(vb-4(le)5)-4(le)5-