ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS (CERTIFICATE)

Overview

The Graduate Orthodontics and Dentofacial Orthopedics Program was established in 2004 and is a full-time program requiring 30 months in active residency beginning in August each year. The Orthodontics and Dentofacial Orthopedics program provides a balanced education with a strong emphasis in clinical experience where residents are exposed to the most current techniques and practices in the field. Upon completion of the program, the resident is awarded a Certificate in Orthodontics and Dentofacial Orthopedics and a Master of Science in Dentistry.

The program will include extensive exposure to a multitude of cases, treatment philosophies, and practice management experiences. Residents will have the opportunity to start over 45 cases using various appliances and systems. Throughout the program, residents can expect to treat Invisalign, SLX Clear aligner, Lingual as well as a large number of Cleft Lip and Palate/ Craniofacial Anomaly cases.

The University of Colorado School of Dental Medicine Graduate Orthodontics and Dentofacial Orthopedics Program accepts 12 residents each year from a variety of backgrounds and life experiences. We use a holistic review process when considering applicants by reviewing a number of factors with an emphasis on academic achievement, service, research, class rank and an invitation only interview.

Ideal Applicant

- Dental school GPA of 3.5 or higher
- · GRE scores (top quartile)
- · Class rank (top 30%)
- · Research experience is highly desirable
- · Record of service activities
- Excellent letters of recommendation (A strong recommendation from the applicant's department of orthodontics is preferable)
- Advanced Dental Admission Test (ADAT) While not required, applicants may submit their ADAT score to supplement their application.

Prerequisite Requirements

- Graduate from an ADA accredited dental school in the United States or Canada with a DDS or DMD degree.
- Pass the National Board Dental Examinations (NBDE) Part I.
 Applicant must pass the NBDE Part II before enrollment into the program.
- Or applicant must pass the Integrated National Board Dental Examination (INBDE) before enrollment into the program.

Application Requirements

To apply, please apply using **ONE** of the following methods:

PASS Application-

Applicants may apply by submitting a portion of the application requirements via the web-based application, Postdoctoral Application

Support Service (PASS) (https://pass.liaisoncas.com/applicant-ux/#/login).

The PASS application includes:

- · Personal statement
- · Curriculum vitae/resume
- · Institution evaluation form
- · Three (3) letters of recommendation
- · Official dental school transcript
- Official National Board Dental Examination or Integrated National Board Dental Examination score(s)

The remaining items may be emailed to orthoadmissions@ucdenver.edu or mailed to the address below to complete your application:

- CU Orthodontics and Dentofacial Orthopedics Supplemental Application (https://dental.cuanschutz.edu/docs/ librariesprovider253/ortho-students/cu-odo-supplementalapplication-2024-25—cmc-3-12-24.pdf?sfvrsn=6834ccbb_1)
- Official GRE scores (Institutional code: 7209)
- \$100 application fee payable to "CU Orthodontics and Dentofacial Orthopedics"
- · Small photo (passport size)

OR

CU Orthodontics and Dentofacial Orthopedics Application

Applicants may apply by submitting all the following required items directly to the CU Orthodontics and Dentofacial Orthopedics program at the address below:

- Completed CU Orthodontics and Dentofacial Orthopedics Application (https://dental.cuanschutz.edu/docs/librariesprovider253/ ortho-students/cu-odo-application-2024-25-application---final-cmc-3-12-24.pdf?sfvrsn=f732ccbb_1) includes the following forms:
 - Personal essay
 - · Curriculum vitae/resume
 - · Academic Performance Evaluation Form
 - Three (3) letters of recommendation that can be sent via email (Orthoadmissions@ucdenver.edu) from the person recommending you.
 - · Official dental school transcript
 - · National Board Dental Examination scores (INBDE also accepted)
 - · Official GRE scores (Institutional code: 7209)
 - \$100 application fee payable to "CU Orthodontics and Dentofacial Orthopedics"
 - · Small photo (passport size)

Mailing Address:

University of Colorado School of Dental Medicine Graduate Orthodontics and Dentofacial Orthopedics Program Application

13065 East 17th Avenue Mail Stop F849 Aurora, CO 80045

Nondiscrimination Policy

The CU School of Dental Medicine Graduate Orthodontics and Dentofacial Orthopedics Program does not discriminate on the basis of race, color, national origin, sex, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation, or political philosophy in admission and access to, and treatment and employment in, its educational programs and activities. Individuals of all ethnic minority groups are encouraged to apply for admission.

Curriculum

The 30-month residency program will be covered according to the following manner:

- · Didactic 26%
- · Clinical 58%
- · Research -13%
- · Teaching -3%

Clinical emphasis is placed on the use of contemporary edgewise appliances in conjunction with functional and other orthopedic appliances to treat children, adolescents and adults using both routine orthodontics and orthognathic surgery. Participation with craniofacial anomaly patients and boards is required.

First Year

First Year		
Fall		Hours
DSOR 5101	Orthodontics 101 - Boot Camp	4.2
DSOR 5102	Dentofacial Growth and Development 1	1.8
DSOR 5103	Diagnosis and Treatment Planning 1	1.8
DSOR 5104	Biomechanics 1	3.5
DSOR 5105	Research Methodology and Biostatistics 1	1.8
DSOR 5107	Treatment Planning 1	3.5
DSOR 5108	Current Literature Review 1	0.9
DSOR 5841	Research 1	0.9
DSOR 5931	Clinical Orthodontics 1	7.1
	Hours	25.5
	Total Hours	25.5

First Year		
Spring		Hours
DSOR 5202	Dentofacial Growth and Development 2	2.1
DSOR 5203	Diagnosis and Treatment Planning 2	2.1
DSOR 5204	Biomechanics 2	3.2
DSOR 5205	Research Methodology & Biostatistics 2	2.1
DSOR 5207	Treatment Planning 2	4.3
DSOR 5208	Current Literature Review 2	1.1
DSOR 5321	Orthognathic Surgical Treatment	2.1
DSOR 5842	Research 2	2.1
DSOR 5932	Clinical Orthodontics 2	7.7
	Hours	26.8
	Total Hours	26.8

First Year		
Summer		Hours
DSOR 5211	Treatment in Preadolescent Children	1.8
DSOR 5302	Implants in the Orthodontic Patient	0.9
DSOR 5304	Biomechanics 3	1.8
DSOR 5307	Treatment Planning 3	3.5
DSOR 5331	Management of the TMJ Patient	1.8
DSOR 5344	Advanced Radiology and Radiographic Interpretation	1.8
DSOR 5843	Research 3	2.6
DSOR 5933	Clinical Orthodontics 3	7.4
	Hours	21.6
	Total Hours	21.6

Second Year

Second Year		
Fall		Hours
DSOR 5341	Fundamentals in Teaching, Learning & Assessment	1
DSOR 6107	Treatment Planning 4	4
DSOR 6108	Current Literature Review 4	1
DSOR 6111	Periodontic/Orthodontic Treatment	1
DSOR 6206	Dent/Craniofacial Anomalies	2
DSOR 6844	Research 4	4
DSOR 6934	Clinical Orthodontics 4	9.4
	Hours	22.4
	Total Hours	22.4

Second Year Spring		Hours
DSOR 8317	Advanced Diagnosis of Oral Lesions	0.6
DSOR 6207	Treatment Planning 5	4.3
DSOR 6208	Current Literature Review 5	1.1
DSOR 6209	Surgical Anatomy & Osteology	1.1
DSOR 6845	Research 5	5.3
DSOR 6935	Clinical Orthodontics 5	10.2
DSOR 6936	Review for American Board Examination	1.1
	Hours	23.7
	Total Hours	23.7

Second Year		
Summer		Hours
DSOR 7107	Treatment Planning 6	3.5
DSOR 7108	Current Literature Revie	w 6 0.9
DSOR 7112	Orthodontic Clinical Tea	nching 1 3.5
DSOR 7311	Scientific Writing & Eval	uation 1.8
DSOR 7846	Research 6	5.3
DSOR 7936	Clinical Orthodontics 6	8.4
DSOR 7938	Clinical Problems 1	0.9
	Hours	24.29999999999997
	Total Hours	24.29999999999997

Third Year

DSOR 7212 DSOR 7847	Orthodontic Clinical Teaching 2 Research 7	4
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DSOR 7208	Current Literature Review 7	1
DSOR 7207	Treatment Planning 7	4
DSOR 6201	Ethics & Practice Management	2
Fall		Hours

	Total Hours	18.6
	Hours	18.6
DSOR 7941	Orthodontic Retention II	2.3
DSOR 7939	Clinical Problems 2	1
DSOR 7934	Clinical Orthodontics 8	7.6
DSOR 7848	Research 8	2.8
DSOR 7312	Orthodontic Clinical Teaching 3	1.1
DSOR 7307	Treatment Planning 8	2.3
DSOR 7300	Current Literature Review 8	0.6
DSOR 5111	History of Orthodontics & Dentofacial Orthopedics	0.9
Spring		Hours
Third Year		

Requirements for Graduation

- This certificate is awarded in tandem with the completion of the Masters in Dentistry curriculum. Exceptions may be approved on a case-by-case basis.
- · Attendance of all classes, clinics, and assigned meetings
- · Passing all classes and maintaining an overall B average or above
- · Successful completion of the Proficiency Examinations
- Demonstration of clinical proficiency in orthodontics
- Completion of a research project and committee approval/defense of a publishable manuscript in AJO-DO format
- · Successful completion of all required courses.
- Challenging Part II (written examination) of the American Board of Orthodontics during the 2nd year.

Program Goals

Program Goal 1

 Provide patient-based clinical care to help residents gain proficiency in orthodontics and deliver high-quality care to patients

Objectives:

- Overall Provide a diverse clinical experience similar to normal clinical practice
- Gather an appropriate and complete data base on each patient to provide a strong foundation for diagnosis, treatment planning, treatment consultation, treatment and retention of the patient

- Utilize a problem-based diagnostic and treatment planning strategy for all patients
- Utilize craniofacial growth and development knowledge in planning and carrying out patient treatment
- Integrate relevant biological, clinical and behavioral science into patient treatment
- Utilize current biomechanical and biomaterial techniques and strategies in patient care
- · Utilize interdisciplinary consultation and care when appropriate
- Apply the principles of infection control and environmental safety to patient care and clinical operations

Program Goal 2

 Provide residents with broad-based didactics and a strong basis for continued learning and clinical practice

Objectives:

- · Use and understand basic scientific principles
- Provide sufficient supporting knowledge to allow residents to appropriately evaluate the literature and interact knowledgeably with other dental specialists
- Provide appropriate knowledge on business, legal and ethical issues to aid the student in managing an orthodontic practice

Program Goal 3

 Provide residents the foundation to critically evaluate and conduct research

Objectives:

- · Provide familiarity with research design and statistical analysis
- Formulate a proposal, carry out a research project, analyze results and write the results in a publishable format
- Submit a publishable manuscript to a journal as a contribution to the clinical and scientific literature
- · Develop characteristics of a life-long learner

Program Goal 4

· Encourage service and socially responsible behavior

Objectives:

- Participate in organized dentistry initially by attending local and national meetings
- Participate in craniofacial deformity and underprivileged patient clinics
- · Educate non-orthodontists concerning orthodontics