

ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS (ADVANCED CERTIFICATE)

NYSED: 00867 HEGIS: 1205.00 CIP: 51.0501

Program Description

As a leading postgraduate orthodontic program in USA, NYU has been spearheading the path of clinical excellence built on a strong foundation of evidence-based orthodontics. The program is an intensive and exciting three-year journey which aims not only to develop orthodontists but to develop leaders in our field, pioneers of a new generation of orthodontists. The postgraduate orthodontic program adheres to the Academic Standards and Policies for Advanced Education Programs in Dentistry.

Eligibility for Licensure

Completion of the CODA-accredited Advanced Education Program in Orthodontics & Dentofacial Orthopedics satisfies the training requirements for eligibility for participation in the board certification process for the American Board of Orthodontics. Eligibility for dental licensure is based on pre-professional, professional, and post-graduate training and varies by state/jurisdiction. Candidates should check the state/jurisdiction regulations for dental licensure for the state(s)/jurisdictions(s) in which they are seeking licensure in order to ensure that they comply with all requirements.

Accreditation

The Advanced Education Program in Orthodontics & Dentofacial Orthopedics is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of "approval without reporting requirements." The Commission is a specialized accrediting body recognized by the United States Department of Education.

The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at:

Commission on Dental Accreditation
211 East Chicago Avenue
Chicago, IL 60611

Please visit the Commission's website (<https://coda.ada.org/en/>).

Educational Visits/Observership Opportunities

At this time, NYU Dentistry is not offering individual educational visits. Individuals interested in learning more about our PG Information Sessions should contact dental.pgadmissions@nyu.edu.

Admissions

See Admissions & Application Process (<https://dental.nyu.edu/education/advanced-education-programs/orthodontics/admissions.html>) for admission requirements and instructions specific to this program.

Program Requirements

Education

Postgraduate (PG) students are involved in a range of courses, from basic sciences, craniofacial development, and material science courses to more orthodontic-specific courses such as orthodontic diagnosis and treatment planning, mechanotherapy, growth and development, and orthodontic practice management.

While providing didactic education to the predoctoral dental students, our postgraduate students also engage in peer-to-peer teaching through our unique clinical team approach. PG students are expected to actively participate in diagnostic conferences and faculty presentations and lectures.

Clinic

Postgraduate students are involved in the diagnosis and treatment of all severities of malocclusion and spend the majority of their time gaining a vast clinical experience. Clinical exposure includes but is not limited to multidisciplinary treatment plans and working closely with the orthognathic surgery department and the craniofacial team. All PG students are mentored and encouraged not only to be ABO eligible but also ABO certified by graduation. All the graduating PG students have obtained ABO certification. Our PG students also consistently win national and international awards for their clinical excellence.

Research

All postgraduate students are required to complete a research project and thesis, which they present at graduation. The department has pioneered the effort to develop new methodologies to move teeth faster and safer. Our research is recognized not only nationally through awards and presentations, but also internationally, with our PG students presenting the department's research during the annual meetings of the International Association of Dental Research and the European Orthodontic Society.

Required Courses

Course	Title	Credits
CORE COURSES		
DGSCI-DN 9312	Multidisciplinary Seminars A: (This course is taken three times for a total of 1.25 credits)	1.25
DGSCI-DN 9512	Multidisciplinary Seminars B: (This course is taken three times for a total of 1.25 credits)	1.25
BASCI-DN 5055	Advanced Education Core Sciences	4.5
BASCI-DN 5056	Applied Sciences	1.75
BASCI-DN 8046	Growth & Development I	1
BASCI-DN 8047	Growth & Development II	0.75
YEAR ONE		
PRECL-DN 8077	Principles of Orthodontics I A	2.5
PRECL-DN 8577	Principles of Orthodontics I B	2.75
PRECL-DN 8092	Conferences in Orthodontics I A	0.5
PRECL-DN 8592	Conferences in Orthodontics I B	1.75
PRECL-DN 8091	Orthodontics Interdisciplinary Conferences I A	0.25
PRECL-DN 8591	Orthodontics Interdisciplinary Conferences I B	0.75
PRECL-DN 8076	Advanced Education in Orthodontics Clinic I A	23
PRECL-DN 8576	Advanced Education in Orthodontics Clinic I B	19
YEAR TWO		
PRECL-DN 8079	Principles of Orthodontics II A	2

PRECL-DN 8579	Principles of Orthodontics II B	2.75
DGSCI-DN 9319	Conferences in Orthodontics II A	0.5
DGSCI-DN 9519	Conferences in Orthodontics II B	1.75
DGSCI-DN 9318	Orthodontics Interdisciplinary Conferences II A	0.5
PRECL-DN 9518	Orthodontics Interdisciplinary Conferences II B	0.75
PRECL-DN 8078	Advanced Education in Orthodontics Clinic II A	17
PRECL-DN 8578	Advanced Education in Orthodontics Clinic II B	19
YEAR THREE		
PRECL-DN 8081	Principles of Orthodontics III A	2
DGSCI-DN 8581	Principles of Orthodontics III B	3
DGSCI-DN 9321	Conferences in Orthodontics III A	0.5
DGSCI-DN 9521	Conferences in Orthodontics III B	1.75
DGSCI-DN 9320	Orthodontics Interdisciplinary Conferences III A	0.5
PRECL-DN 9520	Orthodontics Interdisciplinary Conferences III B	0.75
PRECL-DN 8080	Advanced Education in Orthodontics Clinic III A	18
PRECL-DN 8580	Advanced Education in Orthodontics Clinic III B	19
Total Credits		150.75

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
DGSCI-DN 9312	Multidisciplinary Seminars A:	0.5
BASCI-DN 5055	Advanced Education Core Sciences	4.5
BASCI-DN 8046	Growth & Development I	1
PRECL-DN 8077	Principles of Orthodontics I A	2.5
PRECL-DN 8092	Conferences in Orthodontics I A	0.5
PRECL-DN 8091	Orthodontics Interdisciplinary Conferences I A	0.25
PRECL-DN 8076	Advanced Education in Orthodontics Clinic I A	23
Credits		32.25
2nd Semester/Term		
DGSCI-DN 9512	Multidisciplinary Seminars B:	0.5
BASCI-DN 8047	Growth & Development II	0.75
PRECL-DN 8577	Principles of Orthodontics I B	2.75
PRECL-DN 8592	Conferences in Orthodontics I B	1.75
PRECL-DN 8591	Orthodontics Interdisciplinary Conferences I B	0.75
PRECL-DN 8576	Advanced Education in Orthodontics Clinic I B	19
Credits		25.5
3rd Semester/Term		
DGSCI-DN 9312	Multidisciplinary Seminars A:	0.5
BASCI-DN 5056	Applied Sciences	1.75
PRECL-DN 8079	Principles of Orthodontics II A	2
DGSCI-DN 9319	Conferences in Orthodontics II A	0.5
DGSCI-DN 9318	Orthodontics Interdisciplinary Conferences II A	0.5
PRECL-DN 8078	Advanced Education in Orthodontics Clinic II A	17
Credits		22.25
4th Semester/Term		
DGSCI-DN 9512	Multidisciplinary Seminars B:	0.5
PRECL-DN 8579	Principles of Orthodontics II B	2.75
DGSCI-DN 9519	Conferences in Orthodontics II B	1.75
PRECL-DN 9518	Orthodontics Interdisciplinary Conferences II B	0.75
PRECL-DN 8578	Advanced Education in Orthodontics Clinic II B	19
Credits		24.75
5th Semester/Term		
DGSCI-DN 9312	Multidisciplinary Seminars A:	0.25
PRECL-DN 8081	Principles of Orthodontics III A	2
DGSCI-DN 9321	Conferences in Orthodontics III A	0.5
DGSCI-DN 9320	Orthodontics Interdisciplinary Conferences III A	0.5

PRECL-DN 8080	Advanced Education in Orthodontics Clinic III A	18
Credits		21.25
6th Semester/Term		
DGSCI-DN 9512	Multidisciplinary Seminars B:	0.25
DGSCI-DN 8581	Principles of Orthodontics III B	3
DGSCI-DN 9521	Conferences in Orthodontics III B	1.75
PRECL-DN 9520	Orthodontics Interdisciplinary Conferences III B	0.75
PRECL-DN 8580	Advanced Education in Orthodontics Clinic III B	19
Credits		24.75
Total Credits		150.75

Learning Outcomes

Upon successful completion of the program, graduates will:

1. Distinguish between normal and abnormal skeletal growth and development of the hard and soft tissues of the maxillofacial region
2. Diagnose and develop treatment plans for skeletofacial disorders including but not limited to the prevention and treatment of pathology of oral tissues
3. Demonstrate through discussion, their foundation knowledge of anatomy and histology and the impact embryology and genetics influences in planning treatment
4. Apply evidence-based, clinical-relevant scientific research to the approach in managing the patient's oral and medical condition and history, combining the dentist's clinical expertise and the patient's treatment needs and preferences
5. Manage the treatment of a variety of orthodontic problems that reflect the experience of a private practitioner whose patient population includes both children and adults
6. Coordinate and document detailed interdisciplinary treatment plans which may include care from other providers, such as restorative dentists and oral and maxillofacial surgeons or other dental specialists
7. Treat and manage developing dentofacial problems which can be minimized by appropriate timely intervention
8. Use dentofacial orthopedics in the treatment of patients when appropriate
9. Treat and manage major dentofacial abnormalities and coordinate care with oral and maxillofacial surgeons and other healthcare providers
10. Provide all phases of orthodontic treatment including initiation, completion and retention
11. Treat patients with at least one contemporary orthodontic technique
12. Manage patients with functional occlusal and temporomandibular disorders
13. Treat or manage the orthodontic aspects of patients with moderate and advanced periodontal problems
14. Develop and document treatment plans using sound principles of appliance design and biomechanics
15. Obtain and create long term files of quality images of patients using techniques of photography, radiology and cephalometrics, including computer techniques when appropriate
16. Use dental materials knowledgeably in the fabrication and placement of fixed and removable appliances
17. Develop and maintain a system of long-term treatment records as a foundation for understanding and planning treatment and retention procedures

18. Practice orthodontics in full compliance with accepted Standards of ethical behavior
19. Manage and motivate patients to participate fully with orthodontic treatment procedures
20. Study and critically evaluate the literature and other information pertaining to this field
21. Identify patients with sleep-related breathing disorders/sleep apnea
22. Identify patients with Craniofacial Anomalies and Cleft Lip and Palate
23. Treat and effectively manage malocclusions that require four (4) quadrants of bicuspid extractions or of comparable space closure
24. Treat and effectively manage Class II malocclusions, defined as a bilateral end-on or greater Class II molar or a unilateral full cusp Class II molar, through a non-surgical treatment approach
25. Manage patients with intellectual and developmental disabilities
26. Complete a research project including a critical review of the literature, development of a hypothesis, design of the project combined with the appropriate statistical analysis and interpretation of data concluding with the outcome/findings of the project

Additionally, graduates will have an understanding of:

1. Biostatistics;
2. History of Orthodontics and Dentofacial Orthopedics;
3. Jurisprudence;
4. Oral Physiology;
5. Pain and Anxiety Control;
6. Pediatrics;
7. Periodontics;
8. Pharmacology;
9. Preventive Dentistry;
10. Psychological Aspects of Orthodontic and Dentofacial Orthopedic Treatment;
11. Public Health Aspects of Orthodontics and Dentofacial Orthopedics;
12. Speech Pathology and Therapy;
13. Practice Management; and
14. The variety of recognized techniques used in contemporary orthodontic practice

The assessment of competence in each of the above subjects is demonstrated throughout the program as the student matriculates into each level of education, culminating with eligibility to undertake the written component of the AAO Board leading to certification and later demonstrating the clinical acuity and skill as required by the AAO for the oral presentation for Board certification.

Policies

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

College of Dentistry Policies

A full list of related academic policies can be found on the College of Dentistry Academic Policies page (<https://bulletins.nyu.edu/graduate/dentistry/academic-policies/>).