

ORAL AND MAXILLOFACIAL SURGERY (ADVANCED CERTIFICATE)

NYSED: 00782 HEGIS: 1205.00 CIP: 51.0501

Program Overview

The Advanced Education Program in Oral and Maxillofacial Surgery is based at the Bellevue Hospital Center campus of New York University Medical Center. The Department of Oral and Maxillofacial Surgery dates back to 1867, when the first organized course in oral surgery was offered by what was then known as the New York College of Dentistry. The long affiliation between NYU and Bellevue Hospital has enabled the program to fulfill its mission in training postdoctoral students to become leaders in the field of oral and maxillofacial surgery. Many surgeons responsible for the changing face of the specialty were also leaders of the Department of Oral and Maxillofacial Surgery, among them Drs. Leo Winter, Harry Seldin, and William Harrigan.

Didactic training in biomedical sciences takes place at the College of Dentistry and the Medical Center. A wealth of clinical experience is achieved at the affiliate teaching hospitals. These include Tisch Hospital - NYU Medical Center, Lenox Hill Hospital and The Harbor Healthcare System - Veterans Administration Hospital.

Accreditation Status

The program is fully accredited by the Commission on Dental Accreditation of the American Dental Association. Each year two applicants are accepted into the six-year OMS/MD program and one applicant is accepted into the four-year OMS certificate program.

Eligibility for Licensure

Completion of the CODA-accredited Advanced Education Program in Oral & Maxillofacial Surgery satisfies the training requirements for eligibility for participation in the board certification process for the American Board of Oral & Maxillofacial Surgery. 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)/jurisdiction(s) in which they are seeking licensure in order to ensure that they comply with all requirements.

Admissions

See Admissions & Application Process (<https://dental.nyu.edu/education/advanced-education-programs/oms4/admissions.html>) for admission requirements and instructions specific to this program

Program Requirements

The four-year certificate training program has been developed to prepare the graduated dentist an academic and/or private practice career in Oral and Maxillofacial Surgery. It is an integrated clinical and didactic program designed to meet the requirements leading to certification by the American Board of Oral and Maxillofacial Surgery. Upon completion of the residency program, the candidate will receive a specialty certificate in Oral and Maxillofacial Surgery.

The didactic training in Oral and Maxillofacial Surgery begins with postgraduate courses in craniofacial development, head and neck anatomy, bone biology, and physical diagnosis. These essential foundation courses are supplemented by certification in ACLS, PALS, and ATLS. Each Tuesday morning is dedicated to selected topics in oral and maxillofacial surgery.

This includes but is not limited to:

- Maxillofacial trauma
- Pathologic lesions of the head and neck
- Correction of dentofacial deformities
- Maxillofacial reconstruction
- Temporomandibular joint surgery
- Dentoalveolar surgery
- Ambulatory general anesthesia and deep sedation
- Cleft lip and palate repair
- Management of odontogenic infections
- Dental implants
- Management of facial pain
- Facial aesthetic surgery
- Coding and nomenclature
- Risk management

Monday morning attending conference reviews each case from the preceding week. The Chair and faculty in the Pathology Department at the College teach Oral Pathology two times a month.

In addition, there are regularly scheduled multidisciplinary conferences in dentofacial deformities, facial trauma, craniofacial-cleft lip and palate, and Head and Neck Tumor Board.

Year One

The first year of the program consists of seven months on the Oral and Maxillofacial Surgery Service and five months on the Anesthesia Service at NYU Medical Center. The resident functions as a first year anesthesia resident with on call responsibilities. In addition the resident completes Basic Science Courses at NYU Dentistry and a Physical Diagnosis Course.

1 Block = 4 Weeks

Anesthesia: 6 Blocks

Oral/Maxillofacial Surgery: 7 Blocks

Year Two

The second year of the program is dedicated to completion of the off service rotations and gaining experience in major oral and maxillofacial surgery procedures. While on General Surgery and Medicine rotations the resident functions as a first year resident with on-call responsibilities.

1 Block = 4 Weeks

General Surgery: 4 Blocks

Medicine: 2 Blocks

Oral/Maxillofacial Surgery: 7 Blocks

Year Three

In the third year of the program the resident completes 2 additional months of off service rotations (Surgical ICU/ER) and an elective in Craniofacial Surgery at the Institute of Reconstructive and Plastic Surgery.

1 Block = 4 Weeks

SICU: 1 Block

ER: 1 Block

Elective: 1 Block

Oral/Maxillofacial Surgery: 9 Blocks

Year Four

The fourth year of the program consists of 12 months of rotations on the Oral and Maxillofacial Surgery Service at Bellevue Hospital/New York University Medical Center and affiliated hospitals. The resident will function as a chief resident with experiences and expectations consistent with this level of training. During this final year of training, residents participate in cleft lip and palate surgical missions to Mexico and South America.

6-Year Dual Degree with NYU Grossman School of Medicine

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This includes but is not limited to:

- Maxillofacial Trauma
- Pathologic lesions of the head and neck
- Correction of dentofacial deformities
- Maxillofacial Reconstruction
- Temporomandibular joint surgery
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Year One

The first year of the program consists of an introductory block on the Oral and Maxillofacial Surgery Service and 12 blocks in the C 21 Medical School Curriculum. Curriculum for the 21st Century, or C 21, provides students with patient-centered and disease-focused medical education with an emphasis on preclinical sciences. Please visit Education at NYU School of Medicine (<http://school.med.nyu.edu>) for further information. In addition, the resident completes Basic Science Core Courses at NYU

College of Dentistry and an introductory Physical Diagnosis Course with OMFS faculty.

1 Block = 4 weeks

- Oral/Maxillofacial Surgery: 1 Block
- Medical School: 12 Blocks

Years Two and Three

The second and third year of the program functions as a continuum of surgical and medical education. In the beginning of the second year the resident spends several months back on the OMS service and continues in the C 21. The residents continue the medical clerkships throughout the second year. The USMLE Step I is scheduled in the second year of the program. Year Three of the program is a continuation and completion of medical school, including preparation for the USMLE Step II and completion of a mandatory 5 block rotation on the Anesthesia Service. Graduation from medical school is planned at the end of Year Three of the program.

1 Block = 4 Weeks

OMS: 4-5 Blocks

Medical School: 21-22 Blocks (including 5 Blocks of Anesthesia)

- Pathophysiological Basis of Medicine
- Neuroscience
- Pharmacology
- Pathology
- Psychopathology
- Biostatistic, Epidemiology, and Preventive Medicine
- Physical Diagnosis

Clerkships

- Ambulatory Care Clerkship
- Obstetrics & Gynecology
- Medicine
- Pediatrics
- Neurology
- Psychiatry
- Surgery
- Advanced Electives

Year Four

The fourth year of the program consists of 13 blocks of rotations on the Oral and Maxillofacial Surgery Service at Bellevue Hospital/New York University Langone Medical Center and affiliated hospitals.

1 Block = 4 Weeks

OMS: 13 Blocks

Year Five

The fifth year of the program is spent as an R-1 on the General Surgery Service. The resident functions as a full time member of the General Surgery Department. This 12 month rotation is an essential component necessary for New York State medical Licensure. USMLE Step III should be completed during this year of training.

1 Block = 4 Weeks

Core General Surgery: 8 Blocks

Craniofacial Elective: 1 Block

Oral/Maxillofacial Surgery: 3 Blocks

Vacation: 1 Block

Year Six

The sixth year of the program consists of 12 months of rotations on the Oral and Maxillofacial Surgery Service at Bellevue Hospital/New York University Langone Medical Center and affiliated hospitals. The resident will function as a chief resident with experiences and expectations consistent with this level of training. During this final year of training, residents may participate in volunteer missions and outreach trips.

Research Program

It is required that each resident have an abstract or poster accepted based upon his or her research efforts for presentation at the AAOMS National meeting during their training. Faculty mentors and research supervisors are assigned early during year 1 in the resident's program.

Eligibility and Selection

The program participates in PASS (Postdoctoral Application Support Service) and the National Matching Program (the "Match"). The deadline for receipt of application materials is November 1st of the year prior to expected matriculation. Individuals with the following qualification are eligible for acceptance to the training program:

1. Graduate from institutions approved by the Commission on Dental Accreditation of the American Dental Association.
2. All applicants must be U.S. citizens or permanent residents. Proof of citizenship and/or green card must be provided before interview will be granted.
3. All applicants **must** be eligible for New York State Licensure in Dentistry. This can be accomplished by passage of the North East Regional Dental Board Examination, state reciprocity, or in the case of New York State, by completion of a CODA approved dental advanced education program. Medical Licensure **must** be obtained before Year 6 of the combined MD-Certificate program. New York State Dental Licensure can only be obtained after completion of the program. All residents will be listed in the official NY State dental PG program listing.

Sample Plan of Study

Four-Year Advanced Certificate

Course	Title	Credits
1st Semester/Term		
BASCI-DN 5055	Advanced Education Core Sciences	6.5
BASCI-DN 8046	Growth & Development I	1
BASCI-DN 8043	Clinical Application of Advances in Wound Healing	1.25
BASCI-DN 5056	Applied Sciences	0.75
DGSCI-DN 9339	Advanced Education in Oral & Maxillofacial Surgery 4-year Clinic I	25.75
DGSCI-DN 9340	Principles of Oral and Maxillofacial Surgery 4-year I A	2
DGSCI-DN 9369	OMFS 4-year Interdisciplinary Conferences I A	0.75
DGSCI-DN 9341	Conferences in Oral and Maxillofacial Surgery 4-year I A	1
DGSCI-DN 9373	OMFS 4-year On-call Hours I A	23
DGSCI-DN 9312	Multidisciplinary Seminars Core A	0.5
Credits		62.5

2nd Semester/Term		
BASCI-DN 8047	Growth & Development II-I	0.75
DGSCI-DN 9573		23
DGSCI-DN 9392		0
Credits		23.75

3rd Semester/Term		
DGSCI-DN 9342	OMFS 4-year General Surgery Rotation	0
DGSCI-DN 9393	OMFS 4-year Internal Medicine Rotation	0
DGSCI-DN 9378	OMFS 4-year On-call Hours II A	23
Credits		23

4th Semester/Term		
DGSCI-DN 9578		23
DGSCI-DN 9343	4YR2 Principles Essential to the Practice of Oral & Maxillofacial Surgery	2
DGSCI-DN 9344	4YR2 OMFS Multi-Disciplinary Conferences	0.75
DGSCI-DN 9345	4YR2 Conferences in OMFS	1
Credits		26.75

5th Semester/Term		
DGSCI-DN 9346	Advanced Education in Oral and Maxillofacial Surgery 4-year Clinic II A	25.75
DGSCI-DN 9347	Principles of Oral and Maxillofacial Surgery 4-year II A	2
DGSCI-DN 9348	OMFS 4-year Interdisciplinary Conferences II A	0.75
DGSCI-DN 9349	Conferences in Oral and Maxillofacial Surgery 4-year II A	1
DGSCI-DN 9379	OMFS 4-year On-call Hours III A	23
DGSCI-DN 9312	Multidisciplinary Seminars Core A	0.5
Credits		53

6th Semester/Term		
DGSCI-DN 9579		23
DGSCI-DN 9546		23.75
DGSCI-DN 9547		2
DGSCI-DN 9548		0.75
DGSCI-DN 9549		1
DGSCI-DN 9512		0.5
Credits		51

7th Semester/Term		
DGSCI-DN 9350	Advanced Education in Oral and Maxillofacial Surgery 4-year Clinic III A	25.75
DGSCI-DN 9351	Principles of Oral and Maxillofacial Surgery 4-year III A	2
DGSCI-DN 9352	OMFS 4-year Interdisciplinary Conferences III A	0.75
DGSCI-DN 9353	Conferences in Oral and Maxillofacial Surgery 4-year III A	1
DGSCI-DN 9380	OMFS 4-year On-call Hours IV A	23
DGSCI-DN 9312	Multidisciplinary Seminars Core A	0.5
Credits		53

8th Semester/Term		
DGSCI-DN 9580		23
DGSCI-DN 9550		23.75
DGSCI-DN 9551		2
DGSCI-DN 9552		0.75
DGSCI-DN 9553		1
DGSCI-DN 9512		0.5
Credits		51
Total Credits		344

Six-Year MD/Advanced Certificate

Course	Title	Credits
1st Semester/Term		
BASCI-DN 5055	Advanced Education Core Sciences	1
BASCI-DN 8046	Growth & Development I	1
DGSCI-DN 9391	OMFS 6-year Pre-clinical Med School A	0

DGSCI-DN 9381	OMFS 6-year On-call Hours I A	23
Credits		25
2nd Semester/Term		
BASCI-DN 8047	Growth & Development II-I	0.75
DGSCI-DN 9581		23
DGSCI-DN 9591		0
Credits		23.75
3rd Semester/Term		
DGSCI-DN 9354	OMFS 6-year Med School Clinic I A	0
DGSCI-DN 9382	OMFS 6-year On-call Hours II A	23
Credits		23
4th Semester/Term		
DGSCI-DN 9582		23
DGSCI-DN 9554		0
Credits		23
5th Semester/Term		
DGSCI-DN 9358	OMFS 6-year Med School Clinic II A	0
DGSCI-DN 9383	OMFS 6-year On-call Hours III A	23
Credits		23
6th Semester/Term		
DGSCI-DN 9558		0
DGSCI-DN 9583		23
Credits		23
7th Semester/Term		
DGSCI-DN 9359	OMFS 6-year Med School Clinic III	0
DGSCI-DN 9360	Advanced Education in Oral & Maxillofacial Surgery 6-year Clinic I A	25.75
DGSCI-DN 9361	Principles of Oral and Maxillofacial Surgery 6-year I A	2
DGSCI-DN 9362	OMFS 6-year Interdisciplinary Conferences I A	0.75
DGSCI-DN 9363	Conferences in Oral and Maxillofacial Surgery 6-year I A	1
DGSCI-DN 9384	OMFS 6-year On-call Hours IV A	23
DGSCI-DN 9312	Multidisciplinary Seminars Core A	0.5
Credits		53
8th Semester/Term		
DGSCI-DN 9584		23
DGSCI-DN 9560		25.75
DGSCI-DN 9561		2
DGSCI-DN 9562		0.75
DGSCI-DN 9563		1
DGSCI-DN 9512		0.5
Credits		53
9th Semester/Term		
DGSCI-DN 9385	OMFS 6-year On-call Hours V A	23
DGSCI-DN 9364	OMFS 6-year Med School General Surgery Rotation A	0
Credits		23
10th Semester/Term		
DGSCI-DN 9585		23
DGSCI-DN 9564		0
Credits		23
11th Semester/Term		
DGSCI-DN 9365	Advanced Education in Oral & Maxillofacial Surgery 6-year Clinic II A	25.75
DGSCI-DN 9366	Principles of Oral and Maxillofacial Surgery 6-year II A	2
DGSCI-DN 9367	OMFS 6-year Interdisciplinary Conferences II A	0.75
DGSCI-DN 9368	Conferences in Oral and Maxillofacial Surgery 6-year II A	1
DGSCI-DN 9386	OMFS 6-year On-call Hours VI A	23
DGSCI-DN 9312	Multidisciplinary Seminars Core A	0.5
Credits		53
12th Semester/Term		
DGSCI-DN 9586		23

DGSCI-DN 9565	25.75	
DGSCI-DN 9566	2	
DGSCI-DN 9567	0.75	
DGSCI-DN 9568	1	
DGSCI-DN 9512	0.5	
Credits		53
Total Credits		398.75

Learning Outcomes

Upon completion of the 4- and 6-year postgraduate training in Oral and Maxillofacial Surgeon in accordance with the standards set by the American Association of Oral and Maxillofacial Surgeons, the student will be eligible for Board Certification and will have expertise in the following Practice Domains.

Anesthesia and Medicine

1. Demonstrates expert knowledge of anesthetic pharmacology
2. Demonstrates expert knowledge of common medical conditions
3. Demonstrates expert knowledge of difficult airway management
4. Demonstrates advanced knowledge of complex and uncommon medical conditions
5. Achieves ACLS and PALS certification
6. Engages in outcomes based research specific to the practice of anesthesia

Pre-anesthetic Assessment of Adult and Pediatric Patients

1. Independently performs comprehensive medical history and physical examination of complex patients
2. Integrates information between medical history and physical examination
3. Independently interprets diagnostic studies
4. Independently recognizes need for pre-anesthetic optimization of patients, when appropriate
5. Models and teaches performance of comprehensive medical history and physical examination

Anesthetic Plan and Administration for Adult and Pediatric Patients

1. Independently formulates customized anesthetic plan for adult and pediatric patients
2. Independently performs all levels of routine and complex anesthetics for adults and pediatric patients
3. Independently interprets data from monitors
4. Independently manages routine anesthetic complications

Anesthesia – Airway Skills and Parenteral Access in Adult and Pediatric Patients

1. Independently performs prolonged mask ventilation
2. Independently performs intramuscular injections
3. Performs advanced techniques to secure access to administer drugs (e.g., intraosseous)

Pain Management

1. Demonstrates expert knowledge of opioid and non-opioid analgesic pharmacology

2. Demonstrates expert knowledge of the pathophysiology of acute and chronic pain
3. Demonstrates expert knowledge of medical and pharmacological management of chronic facial pain
4. Independently manages complex procedural pain
5. Independently manages uncomplicated chronic pain conditions
6. Recognizes the need for consultation with pain management specialist

Dentoalveolar and Pre-Prosthetic Surgery

1. Demonstrates expert knowledge of bone healing and complications associated with radiation and anti-resorptive medications
2. Demonstrates expert knowledge of care of patients receiving radiation/chemotherapy
3. Demonstrates advanced knowledge of advanced hemostatic techniques (e.g., transfusion products)
4. Demonstrates expert knowledge of provision of surgical care in patients with complex medical conditions
5. Demonstrates expert knowledge of hard and soft tissue grafting techniques and wound healing
6. Independently formulates treatment plans and performs pre-prosthetic surgeries
7. Manages surgical complications
8. Formulates treatment plans for patients with complex medical issues and collaborative care with other providers
9. Independently performs complex procedures (e.g., vestibuloplasty, gingival grafts)
10. Models and teaches dentoalveolar surgical skills.

Maxillofacial Infection

1. Demonstrates knowledge of the management of the critically ill infection patient
2. Demonstrates knowledge of pathophysiology of sepsis and criteria for extubation of patients with maxillofacial infections.
3. Independently manages or coordinates interdisciplinary care of acute airway compromise
4. Independently performs surgery for serious maxillofacial infections
5. Manages the critically ill maxillofacial infection patient (e.g., sepsis, ventilatory support, nutrition)

Maxillofacial Trauma

1. Demonstrates advanced knowledge of the principles of imaging, treatment sequencing, relative anatomy and approaches to the facial skeleton
2. Demonstrates advanced knowledge of the management of late sequelae and complications of facial trauma
3. Achieves ATLS certification
4. Independently performs complex procedures
5. Independently formulates a treatment plan for patients with complex injuries, polytrauma, and comorbidities
6. Independently manages complex secondary deformities

Skeletofacial Deformities and Obstructive Sleep Apnea

1. Demonstrates advanced knowledge of maxillofacial anatomy and its implications for complex surgical treatment
2. Demonstrates advanced knowledge of the role of multidisciplinary treatment of skeletofacial deformities and obstructive sleep apnea

3. Formulates and implements surgical treatment plans for complex skeletofacial deformities
4. Independently manages and performs complex orthognathic procedures
5. Independently manages postoperative complications

Cleft and Craniofacial Deformities

1. Demonstrates advanced knowledge of maxillofacial anatomy and its implications for complex surgical treatment
2. Models and teaches the rationale of treatment sequencing for cleft/craniofacial deformities
3. Demonstrates advanced knowledge of the role of multidisciplinary treatment of cleft/craniofacial deformities
4. Participates in multidisciplinary treatment planning
5. Formulates and implements surgical treatment plans for craniofacial deformities
6. Independently manages patients and performs surgery for alveolar cleft grafting
7. Independently manages complex postoperative complications

Facial Cosmetic Surgery

1. Demonstrates expert knowledge of the anatomy and principles of complex facial cosmetic procedures
2. Independently performs procedures and manages of facial cosmetic procedures

Facial Pain and Temporomandibular Disorders

1. Demonstrates expert knowledge of medical and pharmacological management of chronic facial pain
2. Demonstrates expert knowledge of nonsurgical and surgical management of temporomandibular disorders and facial pain
3. Independently performs arthroplasties in complex cases (e.g., total joint replacement, ankylosis)

Pathology

1. Demonstrates advanced knowledge of the indications for surgical and non-surgical management of benign and malignant disease
2. Demonstrates expert knowledge of the management of complex disease and regional and distant metastases
3. Demonstrates advanced knowledge of complex complications of benign and malignant disease
4. Independently manages patients with benign disease and malignant disease
5. Independently performs excision and reconstruction of benign and malignant disease
6. Manages complex complications
7. Actively participates in a multidisciplinary head and neck cancer team

Reconstructive Surgery

1. Demonstrates advanced knowledge of the management of complex head and neck defects with advanced techniques in hard and soft tissue flaps and grafts
2. Demonstrates knowledge of the classification of nerve injuries
3. Independently formulates complex treatment plans for reconstructive patients with comorbidities and prior treatments
4. Independently performs complex reconstructive procedures

5. Independently manages complex complications
6. Independently performs nerve repair surgery

Dental and Craniomaxillofacial Implant Surgery

1. Demonstrates knowledge of the principles of implant surgery and esthetic principles as they relate to implant surgery
2. Independently performs craniomaxillofacial implant surgery and engages in outcomes based research
3. Independently manage hard and soft tissue complications and implant failures

Quality Improvement

1. Applies self-assessment and life-long learning behaviors for practice improvement

Research and Teaching

1. Executes a research project Develops and organizes educational activities at the programmatic level

Communication with Patients and Families

1. Capable of negotiating and managing conflict among patients and families
2. Organizes, coordinates and facilitates family/healthcare team conferences

Personal and Ethical Behavior

1. Serves as a role model for ethical behavior
2. Consistently places the interests of patients ahead of self-interests

Coordination of Care

1. Coordinates complex disposition planning, (e.g., home healthcare, skilled nursing facility care etc.)

Patient Safety

1. Formally analyzes shared team experiences to prevent future errors using proven analysis techniques (e.g., root cause analysis, failure mode effects analysis)
2. Leads team by promoting situational awareness and input by all team members

Policies

COVID-19 Vaccine-Related Requirements Mandatory Vaccinations, Boosters, and Records Upload

All members of the NYU community — students, faculty, employees, vendors, affiliates, and campus visitors — are required to be fully vaccinated against COVID-19, to upload proof of their vaccination to NYU's portal, and to have that vaccination documentation accepted by NYU.

NYU Dentistry also must abide by the New York State Department of Health (DOH) regulations "Prevention of COVID-19 Transmission by Covered Entities" (10 NYCRR 2.61).

Note: As of January 13, 2023, the information regarding the applicability and scope of DOH regulations is subject to change, as the regulations are subject to ongoing litigation between the state of New York and a non-NYU party. NYU is monitoring the status of the regulations and this page will be updated prior to matriculation of currently admitted students.

Read the Message to all Admitted Students regarding Proof of COVID-19 Vaccination (<https://dental.nyu.edu/nyudental/en/aboutus/covid19/message-to-admitted-students.html>)

NYU Policies

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

School of Dentistry Policies

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