# PROSTHODONTICS (ADVANCED CERTIFICATE)

NYSED: 01264 HEGIS: 1205.00 CIP. 51.0501

# **Program Description**

The Advanced Education Program in Prosthodontics is committed to educating and mentoring dentists who will become future leaders in the specialty of Prosthodontics. The program's goals are to provide innovative and continually evolving curriculum content, developing students' clinical decision-making and technical skills for addressing highly complex prosthodontic needs. Our objective is to train expert clinicians with a strong sense of ethical responsibility and professionalism. The program strives to achieve these objectives by adopting advanced clinical practices and technologies in the field.

The Advanced Education Program in Prosthodontics is a three-year program that fulfills all educational requirements set by the Council on Dental Education of the American Dental Association and the American Board of Prosthodontics.

# **Program Strengths**

The program offers an unparalleled and extensive range of clinical experiences distinctive to our institution, shaped by a diverse patient population, a robust didactic curriculum, and exceptional clinical faculty. Additionally, the educational foundation is enriched with various research opportunities.

# **Eligibility for Licensure**

Completing the CODA-accredited Advanced Education Program in Prosthodontics satisfies the training requirements for eligibility for the American Board of Prosthodontics board certification process. Eligibility for dental licensure is based on pre-professional, professional, and postgraduate training and varies by state and jurisdiction. Candidates should check the state and jurisdiction regulations for dental licensure in the state(s)/jurisdictions(s) in which they seek licensure to ensure that they comply with all requirements.

- The program's clinical experiences stem from a significant patient volume, with over 10,000 patient visits attributed to the program. Furthermore, NYU Dentistry boasts over 300,000 patient visits to the college annually, providing a consistent influx of referrals to the postgraduate programs. Consequently, our program presents unparalleled interdisciplinary care opportunities.
- The program is supported by a diverse and multifaceted faculty composed of full-time and part-time practitioners with globally recognized reputations. The program proudly hosts the largest number of board-certified prosthodontists, many of whom possess dual or triple specialties, ranging from maxillofacial prosthetics to implant surgery.
- The implant surgical education offered by the program has the longest history among U.S. dental schools. The surgical curriculum fulfills all aspects of the Commission on Dental Accreditation (CODA) requirements for surgical instruction in performing both simple and complex implant restorations and prostheses. This surgical training is delivered by prosthodontists with formal surgical training, oral maxillofacial surgeons, and/or periodontists.

- Throughout the three-year didactic curriculum, hands-on modules, and clinical training, the use of Digital Dentistry within the program emphasizes the integration of digital technology and creative workflows tailored to the demands of complex prosthodontic treatments. All students engage with various CAD/CAM programs, including digital design software like Blue Sky Bio, ZBrush, and Romexis, under the guidance of faculty. They have access to advanced digital tools, such as Trios and Planmeca scanners and SprintRay 3D printers, to enhance their learning and practical application in prosthodontics.
- Master dental technician faculty work closely with postgraduate students, enabling them to learn the technical aspects of prosthodontics directly from master technicians in both clinical and laboratory settings environments.
- The prosthodontic program at New York University College of Dentistry is integrated with the Oral Health Center for People with Disabilities. Situated in the same building as the program, our students rotate through the center, working with faculty in a oneon-one setting that provides comprehensive clinical education in managing patients with special needs.
- The program fosters a strong relationship with all other dental specialties within the institution. Our postgraduate students have unique opportunities to develop comprehensive knowledge and delivery of coordinated interdisciplinary prosthodontic care, including managing complex congenital dental syndromes, post-cancer treatments, post-trauma prosthodontic care, and interceptive prosthodontics in collaboration with orthodontics. Additionally, all specialty postgraduate students regularly participate in multidisciplinary seminars.

# Accreditation

The Advanced Education Program in Prosthodontics 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

To learn more 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.

The Advanced Education Program in Prosthodontics may offer occasional group visit opportunities. For additional information, interested individuals should contact dental.pros.observe@nyu.edu

# Admissions

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

### **Program Requirements** Didactic Program

Approximately twenty-five percent of the overall program time is allocated to didactic components. Emphasis is placed on developing critical and analytical decision-making skills by utilizing both existing and new evidence in dentistry. The program's curriculum and the delivery of educational content are continually evaluated to incorporate new and relevant information in the most accessible way for students.

The curriculum is primarily divided into core courses, which include Advanced Education in Core Sciences, Applied Sciences, Clinical Applications in Wound Healing, Current Concepts in Implant Dentistry and Bone Regeneration, Multidisciplinary Seminars, and Growth & Development, among others. Specialty-specific course modules in Prosthodontics, Implant Dentistry, and Digital Dentistry are designed to facilitate in-depth discussions on traditional practices as well as the most innovative clinical approaches practices.

#### **Clinical Program**

Clinical training constitutes sixty percent of the program's duration. The patient population in the Prosthodontics clinic is vast and diverse. Students operate as members of a multispecialty, interdisciplinary team. They become proficient in diagnosing, treating, and maintaining various prosthodontic needs for patients. Committed to excellence, prosthesis fabrication takes place in high-quality laboratories. The program features a large number of trained full-time and part-time prosthodontists as clinical faculty and numerous reputable scholars. Approximately thirty percent of these faculty members are Board Certified Prosthodontists. The student-to-faculty ratio of about 5:1 enhances the residents' clinical experience experiences.

#### **Research Program**

All students are required to complete an approved research project. The project requires students to demonstrate their understanding of the scientific process, including data collection, statistical analysis, and presentation in a scientific forum. Additionally, students attend several scientific and specialty-related meetings. Each student must present two poster presentations at professional meetings. Research in the program is very active, and students regularly receive national and regional grants and awards.

#### **Teaching Program**

Students instruct predoctoral dental students as part of their graduate education. All students engage in a course on pedagogy and spend up to ten percent of their total program time in teaching.

#### **Required Courses**

Course	Title Cre	dits
CORE COURSES		
DGSCI-DN 9312	Multidisciplinary Seminars A: (This course is taken twice for a total of 0.75 credits)	).75
DGSCI-DN 9512	Multidisciplinary Seminars B: (This course is taken twice for a total of 0.75 credits)	).75
BASCI-DN 5055	Advanced Education Core Sciences	4.5
BASCI-DN 5056	Applied Sciences	1.75
BASCI-DN 8043	Clinical Application of Advances in Wound Healing	1.5

Total Credits	1	72.5
BEHSC-DN 9507	Advanced Education in Prosthodontics Clinic III B	20
BEHSC-DN 9307	Advanced Education in Prosthodontics Clinic III A	20
BEHSC-DN 9306	Principles of Prosthodontics III B	4
BEHSC-DN 9312	Principles of Prosthodontics III A	1.75
DGSCI-DN 8543	Comprehensive Treatment Planning III B	0.75
DGSCI-DN 8043	Comprehensive Treatment Planning III A	0.5
YEAR THREE		
DGSCI-DN 9534	Advanced Education in Prosthodontics Clinic II B	20
DGSCI-DN 9334	Advanced Education in Prosthodontics Clinic II $\ensuremath{A}$	20
DGSCI-DN 9505	Principles of Prosthodontics II B	4
BEHSC-DN 9305	Principles of Prosthodontics II A	1.75
DGSCI-DN 9533	Comprehensive Treatment Planning II B	0.75
DGSCI-DN 9333	Comprehensive Treatment Planning II A	0.5
YEAR TWO		
DGSCI-DN 9536	Advanced Education in Prosthodontics Clinic I B	20
DGSCI-DN 9336	Advanced Education in Prosthodontics Clinic I A	20
PRECL-DN 8587	Preclinical Workshop in Prosthodontics B	1.25
PRECL-DN 8087	Preclinical Workshop in Prosthodontics A	10
DGSCI-DN 9504	Principles of Prosthodontics I B	6.25
BEHSC-DN 9304	Principles of Prosthodontics I A	5
PRECL-DN 8586	Comprehensive Treatment Planning I B	0.75
PRECL-DN 8086	Comprehensive Treatment Planning I A	0.5
DGSCI-DN 9371	Current Concepts in Implant Dentistry & Bone Regeneration IA	1.5
YEAR ONE		
BASCI-DN 8045	Fundamentals of Anesthesia	0.75
BASCI-DN 8047	Growth & Development II	0.75
BASCI-DN 8046	Growth & Development I	1
BASCI-DN 7027	Host Response to Infection & Trauma	1.5

# Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
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 8045	Fundamentals of Anesthesia	0.75
BASCI-DN 7027	Host Response to Infection & Trauma	1.5
BASCI-DN 8043	Clinical Application of Advances in Wound Healing	1.5
BEHSC-DN 9304	Principles of Prosthodontics I A	5
PRECL-DN 8086	Comprehensive Treatment Planning I A	0.5
PRECL-DN 8087	Preclinical Workshop in Prosthodontics A	10
DGSCI-DN 9336	Advanced Education in Prosthodontics Clinic I A	20
	Credits	46.5
2nd Semester/Term		
BASCI-DN 8047	Growth & Development II	0.75
DGSCI-DN 9504	Principles of Prosthodontics I B	6.25
PRECL-DN 8586	Comprehensive Treatment Planning I B	0.75
PRECL-DN 8587	Preclinical Workshop in Prosthodontics B	1.25
DGSCI-DN 9536	Advanced Education in Prosthodontics Clinic I B	20
	Credits	29
3rd Semester/Term		
DGSCI-DN 9312	Multidisciplinary Seminars A:	0.25
DGSCI-DN 9371	Current Concents in Implant Dentistry & Bone	1.5

BEHSC-DN 9305	Principles of Prosthodontics II A	1.75
DGSCI-DN 9334	Advanced Education in Prosthodontics Clinic II A	20
DGSCI-DN 9333	Comprehensive Treatment Planning II A	0.5
	Credits	24
4th Semester/Term		
DGSCI-DN 9512	Multidisciplinary Seminars B:	0.25
DGSCI-DN 9505	Principles of Prosthodontics II B	4.0
DGSCI-DN 9533	Comprehensive Treatment Planning II B	0.75
DGSCI-DN 9534	Advanced Education in Prosthodontics Clinic II B	20
	Credits	25
5th Semester/Term		
DGSCI-DN 9312	Multidisciplinary Seminars A:	0.5
BEHSC-DN 9312	Principles of Prosthodontics III A	1.75
DGSCI-DN 8043	Comprehensive Treatment Planning III A	0.5
BEHSC-DN 9307	Advanced Education in Prosthodontics Clinic III A	20
	Credits	22.75
6th Semester/Term		
DGSCI-DN 9512	Multidisciplinary Seminars B:	0.5
BEHSC-DN 9306	Principles of Prosthodontics III B	4.0
DGSCI-DN 8543	Comprehensive Treatment Planning III B	0.75
BEHSC-DN 9507	Advanced Education in Prosthodontics Clinic III B	20
	Credits	25.25
	Total Credits	172.5

### Learning Outcomes

Upon successful completion of the program, graduates will:

- 1. Prepare and present diagnostic data, treatment plans and the results of patient treatment.
- 2. Apply principles related to caries risk assessment and intervention.
- 3. Manage and treat a wide scope of complex clinical conditions for edentulous, partially edentulous and dentate patients.
- 4. Manage and treat patients with clinical conditions at a level beyond experiences at the predoctoral dental education level.
- Provide prosthodontic therapy for a wide scope of patients with esthetic and functional needs above the level of general dentistry, including patients with varying degrees of cognitive and physical impairment.
- 6. Apply principles associated with fixed prosthodontics, removable prosthodontics and implants, and as members of a treatment team.
- 7. Evaluate and use existing and appropriate newly introduced technologies to replace teeth and their associated structures using biologically active and passive therapies for fixed and removable prosthodontic treatment. These include experiences beyond those learned at the predoctoral level and use natural teeth and dental implants as part of the treatment.
- 8. Apply evidence-based health care principles.
- 9. Identify, appraise, apply and communicate best evidence as it relates to health care and clinical and translational research, including how such research is conducted, evaluated, applied and communicated to patients and health care providers.
- 10. Utilize principles of ethical decision-making pertaining to academic, research, patient care and practice environments.
- 11. Draw on a range of resources such as professional codes, regulatory law, and ethical theories to guide judgment and action for issues that are complex, novel, ethically arguable, divisive or of public concern.
- 12. Apply principles of esthetic dentistry.
- 13. Use existing and newly introduced technologies and apply principles of esthetic dentistry to restore existing teeth and replace missing

teeth and their associated structures. These experiences are beyond those learned at the predoctoral level supported by natural teeth and dental implants as part of the treatment.

- 14. Carry out placement and restoration of dental implants, including referral.
- 15. Carry out replacement of missing teeth and the associated oral and maxillofacial tissues using biocompatible substitutes is a core component of Prosthodontics and its definition. These experiences should demonstrate the student's/resident's role in the process of assessment, diagnosis, treatment planning, implementation of prosthetic rehabilitation, and referral.
- 16. Lead and coordinate oral health care with other members of the health care team.
- 17. Plan, evaluate, and provide direction for patient treatment in consultation with other health care providers in a multi-disciplinary team.
- 18. Direct laboratory technicians supporting treatment at the advanced prosthodontic level.
- 19. Select and apply biomaterials, recognizing esthetic, biomechanical and biocompatibility implications of prosthodontic therapies.
- 20. Create treatment plans for clinical predictability based on patient and restoration factors.
- 21. Apply digital dentistry principles.
- 22. Apply digital technologies in the assessment and diagnosis of patients.
- 23. Plan, design, provide restorations, and replace missing teeth and the associated structure applying digital technologies.
- 24. Perform laboratory procedures in the treatment of edentulous, partially edentulous and dentate patients.
- 25. Use existing technologies to plan, design and fabricate prostheses.
  - a. Will be capable of directing dental technicians in prosthodontic laboratory procedures.
  - b. Will be able to evaluate newly introduced technologies and apply these as appropriate.
- 26. Manage patients with temporomandibular disorders and/or orofacial pain.
- Recognize signs and symptoms associated with temporomandibular disorders and/or orofacial pain and either provide appropriate treatment or refer, consistent with contemporary practice and the best interest of the patient.
- 28. Have experience with patients requiring maxillofacial prosthetic care.
- 29. Have clinical patient experiences screening, diagnosing, assessing risk, treatment planning, referring and following-up patients requiring maxillofacial services.
- 30. Present papers at educational meetings outside of the sponsoring institution.
- 31. Develop and submit posters for scientific meetings.
- 32. Submit abstracts for presentation at educational meetings or publication in peer reviewed journals.
- 33. Participate in or complete a research project (basic science or clinical) with mentoring.
- 34. Submit an article for publication in a peer reviewed journal.

### 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/).