

# ORTHODONTICS AND PERIODONTICS, CERTIFICATE

The Orthodontics and Periodontics program features a Clinical Track and an Academic Track. Applicants to this joint program must be accepted by both the Periodontics and Orthodontic admissions committees.

## Clinical Track

In this track, the first year provides a comprehensive background in periodontics through extensive literature reviews, seminars, and clinical practice. Selected periodontal cases are continued into the second year, which focuses on formal training in orthodontics, orthodontic preclinical laboratories, and the beginning of clinical training in several multi-band techniques. The third and fourth years consist primarily of orthodontic seminars, clinical practice of periodontics and orthodontics, and evaluation of post-treatment periodontal cases. Third- and fourth-year students also do limited teaching. Graduates in this program are fully certified and board eligible in both periodontics and orthodontics. The four-year track will develop skilled clinicians who will be able to practice and teach in a clinical setting.

Duration of program: 48 months

## Academic Track

The five-year program is designed to prepare students for full-time academia as dental educators and highly trained clinicians in periodontics and orthodontics. This program is planned in cooperation with a research preceptor and leads to a Master of Science in Oral Biology. The five years are planned and balanced by the Departments of Periodontics and Orthodontics and the research preceptor, so students can undertake clinical research while also being trained as a clinician. The clinical portion of the program is similar to the four-year track. Students will also have courses in the Graduate School of Education and have teaching responsibilities the fourth and fifth years.

Duration of program: 60 months

**For more information:** [https://www.dental.upenn.edu/academic\\_programs\\_admissions/graduate\\_dental\\_education\\_programs/perio\\_ortho\\_residency\\_program](https://www.dental.upenn.edu/academic_programs_admissions/graduate_dental_education_programs/perio_ortho_residency_program) ([https://www.dental.upenn.edu/academic\\_programs\\_admissions/graduate\\_dental\\_education\\_programs/perio\\_ortho\\_residency\\_program/](https://www.dental.upenn.edu/academic_programs_admissions/graduate_dental_education_programs/perio_ortho_residency_program/))

This degree requires a minimum of 250 Credit Hours.

## Curriculum

All Dental Medicine certificate students share a common core of required courses throughout the first year. In addition, students complete additional courses specific to their particular program.

### Program Requirements (Certificate Only)

- Core Graduate Dental Education Courses (Year 1 only)
- Program Specific Courses (Years 1 - 4 Didactic & Clinical)
- Literature Review (Years 1 - 4)
- Case Presentations (Years 1 - 4)
- Program Seminars (Years 1 - 4)
- Clinical Rotations (Years 1 - 4)

Code	Title	Course	Units
<b>PGY1</b>			
<i>Fall</i>			
GPRD 9001	Introduction To Periodontology		
GPRD 9011	Introduction To Periodontal Prosthesis		
GPRD 9021	Clinical Periodontics I		
GPRD 9031	Classic Literature Review I		
GPRD 9041	Current Literature Review I		
GPRD 9051	Periodontics Case Presentation I		
GPRD 9061	Surgical Endodontic Rotation I		
GPRD 9071	Fundamentals Of Periodontics I		
GPRD 9081	Fundamentals Of Perio Surgery I		
GPRD 9091	Sedation Seminar I		
GPRD 9101	Minor Adult Orthodontics I		
GPRD 9111	Advanced Topics In Periodontics I		
GPRD 9141	P Care Clinic Rotation I		
GPRD 9151	Complications Seminar I		
GPRD 9161	Periodontal Practice Management		
GPRD 9171	Treatment Plan Rotation I		
<i>Spring</i>			
GPRD 9022	Clinical Periodontics II		
GPRD 9032	Classic Literature Review II		
GPRD 9042	Current Literature Review II		
GPRD 9052	Periodontics Case Presentation II		
GPRD 9062	Surgical Endodontic Rotation II		
GPRD 9072	Fundamentals Of Periodontics II		
GPRD 9082	Fundamentals Of Perio Surgery II		
GPRD 9092	Sedation Seminar II		
GPRD 9112	Advanced Topics In Periodontics II		
GPRD 9122	In-Service Examination I		
GPRD 9142	P Care Clinic Rotation II		
GPRD 9152	Complications Seminar II		
GPRD 9172	Treatment Plan Rotation II		
GPRD 9182	Oral Comprehensive Examination I		
<b>PGY2</b>			
<i>Fall</i>			
GPRD 9023	Clinical Periodontics III		
GPRD 9033	Classic Literature Review III		
GPRD 9043	Current Literature Review III		
GPRD 9053	Periodontics Case Presentation III		
GPRD 9063	Surgical Endodontic Rotation III		
GPRD 9113	Advanced Topics In Periodontics III		
GPRD 9143	P Care Clinic Rotation III		
GPRD 9153	Complications Seminar III		
GPRD 9173	Treatment Plan Rotation III		
GORT 9001	Research Seminars I		
GORT 9011	Growth & Development I		
GORT 9021	Biology of Tooth Movement		
GORT 9031	Diagnosis and Treatment Planning I		
GORT 9041	Biomechanics I		
GORT 9051	Appliance & Lab Technique		

GORT 9061	TMD Diagnosis & Therapy I
GORT 9071	Ortho/Perio & Adult Orthodontics I
GORT 9081	Orthodontic Literature Review I
GORT 9091	Orthognathic Surgery/TMJ Lecture Series I
GORT 9101	Case Presentation Seminars I
GORT 9111	Craniofacial Orthodontic Seminars I
GORT 9121	Early Treatment I
GORT 9131	Six Elements and Adult Orthodontics I
GORT 9141	Clinical Orthodontic Training I
<i>Spring</i>	
GPRD 9024	Clinical Periodontics IV
GPRD 9034	Classic Literature Review IV
GPRD 9044	Current Literature Review IV
GPRD 9054	Periodontics Case Presentation IV
GPRD 9064	Surgical Endodontic Rotation IV
GPRD 9114	Advanced Topics In Periodontics IV
GPRD 9124	In-Service Examination II
GPRD 9144	P Care Clinic Rotation IV
GPRD 9154	Complications Seminar IV
GPRD 9174	Treatment Plan Rotation IV
GPRD 9184	Oral Comprehensive Examination II
GORT 9002	Research Seminars II
GORT 9012	Growth & Development II
GORT 9032	Diagnosis and Treatment Planning II
GORT 9042	Biomechanics II
GORT 9062	TMD Diagnosis & Therapy II
GORT 9072	Ortho/Perio & Adult Orthodontics II
GORT 9082	Orthodontic Literature Review II
GORT 9092	Orthognathic Surgery/TMJ Lecture Series II
GORT 9102	Case Presentation Seminars II
GORT 9112	Craniofacial Orthodontic Seminars II
GORT 9122	Early Treatment II
GORT 9132	Six Elements and Adult Orthodontics II
GORT 9142	Clinical Orthodontic Training II
<b>PGY3</b>	
<i>Fall</i>	
GPRD 9025	Clinical Periodontics V
GPRD 9055	Periodontics Case Presentation V
GPRD 9065	Surgical Endodontic Rotation V
GPRD 9115	Advanced Topics In Periodontics V
GPRD 9145	P Care Clinic Rotation V
GPRD 9155	Complications Seminar V
GPRD 9175	Treatment Plan Rotation V
GPRD 9195	Board Review Seminar I
GORT 9003	Research Seminars III
GORT 9033	Diagnosis and Treatment Planning III
GORT 9043	Biomechanics III
GORT 9073	Ortho/Perio & Adult Orthodontics III
GORT 9093	Orthognathic Surgery/TMJ Lecture Series III
GORT 9103	Case Presentation Seminars III

GORT 9143	Clinical Orthodontic Training III
GORT 9153	Craniofacial Orthodontic Rotations I
GORT 9163	Ethics in Orthodontics I
GORT 9173	Literature Review/ABO I
GORT 9183	Orthognathic Surgery and Practice Mgmt Workshop I
GORT 9193	P & I Clinic Teaching I
GORT 9203	Practice Management I
<i>Spring</i>	
GPRD 9026	Clinical Periodontics VI
GPRD 9056	Periodontics Case Presentation VI
GPRD 9066	Surgical Endodontic Rotation VI
GPRD 9116	Advanced Topics In Periodontics VI
GPRD 9126	In-Service Examination III
GPRD 9146	P Care Clinic Rotation VI
GPRD 9156	Complications Seminar VI
GPRD 9176	Treatment Plan Rotation VI
GPRD 9186	Oral Comprehensive Examination III
GPRD 9196	Board Review Seminar II
GORT 9004	Research Seminars IV
GORT 9034	Diagnosis and Treatment Planning IV
GORT 9044	Biomechanics IV
GORT 9074	Ortho/Perio & Adult Orthodontics IV
GORT 9094	Orthognathic Surgery/TMJ Lecture Series IV
GORT 9104	Case Presentation Seminars IV
GORT 9144	Clinical Orthodontic Training IV
GORT 9154	Craniofacial Orthodontic Rotations II
GORT 9164	Ethics in Orthodontics II
GORT 9174	Literature Review/ABO II
GORT 9184	Orthognathic Surgery and Practice Mgmt Workshop II
GORT 9194	P & I Clinic Teaching II
GORT 9204	Practice Management II
<b>PGY4</b>	
<i>Fall</i>	
GPRD 9991	Clinical Periodontics VII
GORT 9145	Clinical Orthodontic Training V
<i>Spring</i>	
GPRD 9992	Clinical Periodontics VIII
GORT 9146	Clinical Orthodontic Training VI
<b>PGY5 (Academic Tract Only)</b>	
<i>Fall</i>	
GPRD 9993	Clinical Periodontics IX
GORT 9147	Clinical Orthodontic Training VII
<i>Spring</i>	
GPRD 9994	Clinical Periodontics X
GORT 9148	Clinical Orthodontic Training VIII

## Core Graduate Dental Education Courses

Code	Title	Course Units
<b>Year 1</b>		
<i>Fall</i>		
DADE 9330	Ethics, Professionalism and Jurisprudence	1-3
DADE 9340	Evidence-based clinical practice	1.75-3
DADE 9350	Oral and systemic diseases	3.75-5
<i>Spring</i>		
DADE 9360	Oral infection and immunity	4-6
DADE 9370	Conservative and regenerative clinical practice	2-5
DADE 9380	Vulnerable populations across the lifespan	1.5-3.5

## Master of Science in Oral Biology

The School of Dental Medicine also offers a Master of Science in Oral Biology (MSOB) (<http://catalog.upenn.edu/graduate/programs/oral-biology-msob/>). **Enrollment in the MSOB program is limited to individuals concurrently registered in one of the postgraduate specialty training (certificate) programs.** Candidates receive the MSOB degree after completion of both their specialty training and the Master's curriculum, which consists of didactic, seminar, and research practicum courses. The MSOB program is comprised of two tracks designed for outstanding students who are interested in either integrating research or structured evidence-based learning into their post-graduate education.

Depending on the track selected, research activities or a systematic literature review form the core of the MSOB program. Students are expected to participate in a clinical or basic science research project of sufficient scope and intensity or a formally structured and critically evaluated literature review focused on an important oral health-related research or clinical question. A thesis composed of an in-depth review of the relevant literature along with a manuscript reporting the results of the research or a systematic review is required for graduation for the research and evidence-based learning tracks respectively.

Code	Title	Course Units
<b>Additional MSOB Course Requirements</b>		
DENT 9960		
DENT 9970		

**For more information:** [https://www.dental.upenn.edu/academic\\_programs\\_admissions/graduate\\_dental\\_education\\_programs/masters\\_of\\_science\\_in\\_oral\\_biology](https://www.dental.upenn.edu/academic_programs_admissions/graduate_dental_education_programs/masters_of_science_in_oral_biology) ([https://www.dental.upenn.edu/academic\\_programs\\_admissions/graduate\\_dental\\_education\\_programs/masters\\_of\\_science\\_in\\_oral\\_biology/](https://www.dental.upenn.edu/academic_programs_admissions/graduate_dental_education_programs/masters_of_science_in_oral_biology/))

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The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2024 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.

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