Endodontics

Degree Offered

- Master of Science

General Information

The School of Dentistry and its Department of Endodontics offer a program of advanced study and clinical training leading to the degree of master of science. The program requires a minimum of twenty-four months (two academic years and two summer sessions) of full-time residency in the School of Dentistry. It is designed to qualify dentists for careers in endodontic clinical practice, teaching, and research.

A stipend plus tuition waiver will be provided for graduate students in Endodontics at the end of the first year for the Summer Session and Fall/Spring Semesters. Special fees are not covered by the tuition waiver. You must pay special fees each term/semester.

Inquiries concerning this program should be directed to the Office of Academic and Postdoctoral Affairs. Applications will be processed in the School of Dentistry. Applicants approved for admission to the program will be notified soon after interviews are completed.

This program is accredited by the Commission on Dental Accreditation of the American Dental Association. For details about the faculty, publications, and alumni information, please visit the Department website at http://dentistry.hsc.wvu.edu/Academic-Programs/Graduate-Programs/Master-of-Science-in-Endodontics.

Program Goals

- Provide the education and training necessary for graduate dentists to practice in the specialty of Endodontics.
- Provide the basis for a specialist in Endodontics to achieve Board Certification in Endodontics.

Graduate Courses

Advanced Oral Surgery: Advanced study of therapeutics, hospital protocol, and surgical aspects of oral surgery involving lectures, seminars, demonstrations, and clinical applications.

Advanced Topics: Biomedical Sciences Module Series: The Biomedical Sciences Module series has been designed as an online course for students enrolled in the advanced education programs in the WVU School of Dentistry. Four modules are planned. They include pharmacology, physiology/biochemistry, anatomy/histology/embryology, and microbiology/immunology/genetics.

The content of these modules focuses on the clinical application of each of the biomedical sciences to dentistry. Cases will be used to integrate theory and practice. Students will attend a virtual classroom by viewing online lectures, reading prescribed materials, and interacting with faculty and classmates through an online discussion forum.

Advanced Topics: Investigation of advanced topics not covered in regularly scheduled courses.

Applied Biostatistics for Health: Statistical models, distributions, probability, random variables, tests of hypotheses, confident intervals, regression, correlation, transformations, F and Chi-square distributions, analysis of variance and multiple comparisons.

Clinical Endodontics: Graduate of an accredited dental school and admission to the Advanced Education Program in Endodontics or consent. Clinical endodontic practice in the areas of: ordinary endodontic cases, complex endodontic cases, hemisection, root amputation, replantation, transplantation, endodontic implantation, vital pulp therapy, apexification, and bleaching.

Endodontic Theory: Provides seminar discussions in the topics of: basic endodontic techniques, advanced endodontic techniques, endodontic literature review, case presentation, and advanced endodontic theory.

Research: Research activities leading to a thesis, problem report, research paper, or equivalent scholarly project.

Special Studies in Oral Pathology: Advanced study of local or systemic disease processes affecting oral structures through seminars.

Teaching Practicum: Supervised practice in college teaching of dentistry.

Faculty

Director

- Takashi Komabayashi - D.D.S. (University of California San Francisco & Hiroshima University)
Chair

• Anthony T. Borgia - D.D.S. (Georgetown University)

Admission Requirements

The program’s requirements are as follows:

• Must have passed the National Dental Board Examination—Part 1 and Part 2.
• Must have earned a D.M.D. or D.D.S. degree, or equivalent.
• Must be proficient in the English language.
• Must be a graduate of an accredited US or Canadian Dental School.
• Must display evidence of scholastic and clinical achievement that would indicate the applicant’s ability to progress in a program of this nature. Generally, a minimum grade-point average of 3.0 is required.
• Must apply to the program through the Postdoctoral Application Support Service (PASS, http://www.adea.org/) and have all application materials in PASS by August 1. For more detailed information, go to the School of Dentistry website (http://dentistry.hsc.wvu.edu/Academic-Programs/Graduate-Programs/Master-of-Science-In-Endodontics).
• Must become familiar with the West Virginia University School of Dentistry’s policy and procedure for Bloodborne Pathogens and Infectious Diseases.
• Must consent to and pass a criminal background investigation prior to final acceptance.
• Must provide evidence of vaccination for rubella, rubeola, mumps, hepatitis B, tetanus, meningococcal, meningitis, varicella and polio.
• Must provide evidence of a negative PPD test performed within the previous twelve months. A positive PPD test result must be accompanied by an appropriate chest x-ray report and follow-up treatment plan.
• Must meet certain Federal and University standards regarding the Responsible Conduct of Research (RCR). To comply with these standards, all individuals admitted to the Doctor of Dental Surgery (DDS) and dental graduate programs must successfully complete the Biomedical Responsible Conduct of Research (BRCR) online course offered by the Collaborative Institutional Training Initiative (CITI). The BRCR course must be completed no later than 30 days after beginning your first semester in the education program. Failure to satisfy this requirement within the specified period of time will impact your enrollment.

Degree Requirements — Master of Science degree

• Fulfill University requirements for graduate study.
• Complete twenty-four months (two academic years and two summer sessions) of consecutive full-time advanced study and clinical training at the School of Dentistry.
• Complete an approved master’s thesis based on original research completed during the course of study in an area related to endodontics.
• Must satisfactorily pass a final oral examination.
• Must complete all didactic and clinical work in the required curriculum.
• Must demonstrate satisfactory clinical competency in endodontics.
• Complete a minimum of seventy credit hours, including thirty-eight hours of endodontic courses, a minimum of seventeen hours of selected basic sciences subjects, seven hours teaching practicum, and a thesis (eight hours).
• Achieve a 3.0 GPA or an overall competence in the student’s field. A minimum grade of B must be earned in all work attempted in the master’s program. A grade of C or below in two courses will require a faculty review of the student’s progress. A third C or below will result in suspension from the program.