

Operative Dentistry

Head

- Erica C. Teixeira

Professional certificate: operative dentistry

Faculty: <https://dentistry.uiowa.edu/directory>

Website: <https://dentistry.uiowa.edu/departments/operative-dentistry>

Courses

Operative Dentistry Courses

OPER:5126 Operative Dentistry Seminar 0-1 s.h.
Review and critical analysis of operative dentistry literature.

OPER:5127 Introduction to Operative Dentistry Advanced Education arr.

Broad introduction to key operative dentistry concepts in preparation for clinical patient care and teaching; overriding objectives are to reinforce fundamental principles of operative dentistry, refine clinical skills, enhance/add approaches of clinical problem solving, establish concepts of acceptable clinical performance levels, and preparation for resident instructors in predoctoral simulation clinic courses.

OPER:5140 Operative Dentistry Advanced Clinic 0-3 s.h.
Medical and surgical clinical management of dental disease; special emphasis on minimally invasive dentistry using advanced aesthetic principles.

OPER:5234 Selected Applications of Operative Dentistry 0-3 s.h.
Advanced techniques completed on simulated patients.

OPER:5240 Advanced Operative Dental Implants and Digital Dentistry 0-1 s.h.
Treatment of partially edentulous area with implant therapy for single tooth replacement; builds on operative dentistry knowledge base with emphasis on fundamental biomechanical principles, materials, and techniques required to rehabilitate form and function of a single tooth implant; demonstration of successful implant treatment predicated upon a sound diagnosis, appropriate treatment plan, precise prosthetically driven placement of implant, logical sequence of treatment, appropriate abutment selection, appropriate materials selection, routine prosthodontic maintenance, and patient education.

OPER:5245 Pre-Clinical Teaching 0-3 s.h.
Teaching predoctoral dental students on simulated patients.

OPER:6246 Clinical Teaching 0-2 s.h.
Clinical teaching instruction in operative dentistry clinics.

OPER:8120 Dental Anatomy 3 s.h.
Basic dental terminology and nomenclature, human tooth morphology, creation of tooth crowns with wax.

OPER:8122 Introduction to Operative Dentistry 1 s.h.
Introduction to basic didactic knowledge and psychomotor skills in the practice of operative dentistry in a preclinical setting with simulated scenarios; for first-year dental students.

OPER:8124 Operative Dentistry I 5 s.h.
Basic didactic knowledge and psychomotor skills of principles, terminology, instruments, materials, and techniques utilized in the practice of operative dentistry in a preclinical setting with simulated scenarios; for first-year dental students. Prerequisites: OPER:8120.

OPER:8240 Operative Dentistry II 3 s.h.
Principles of cavity preparation and digital workflow for designing and fabrication of partial cuspal coverage restorations using CAD/CAM; dental material properties and applications; principles of esthetic restorations and peer exercises on basic clinical concepts. Prerequisites: OPER:8120 and OPER:8122 and OPER:8124.

OPER:8243 Introduction to Clinical Operative Dentistry 3 s.h.
Students provide clinical care from diagnosis and treatment planning to caries and non-caries lesion management in patients; clinical experience in restoring teeth with small to moderate lesions or defects; demonstration of effective patient management skills including pain control, professionalism, and critical thinking; esthetic dentistry including tooth bleaching. Prerequisites: OPER:8120 and OPER:8122 and OPER:8124 and OPER:8240.

OPER:8370 Operative Dentistry III arr.
Combination of didactic and clinical aspects of operative dentistry; medical and surgical management of dental disease; emphasis on minimally invasive dentistry with advanced aesthetic principles. Prerequisites: OPER:8120 and OPER:8122 and OPER:8124 and OPER:8240 and OPER:8243.