PROSTHODONTIC GRADUATE PROGRAM
COURSE DESCRIPTIONS

583. Independent Studies. Ia and b (2 credits each), IIA and b (2 each), IIa (1 credit)
This course relies on readings and class discussion of current prosthodontic literature. Topics include: sleep apnea, pain management, advanced implant surgery, ceramics in prosthodontic treatment, minor periodontal surgery, etc. Each student is expected to prepare a presentation on a patient treatment and an advanced prosthodontic topic.

630. Introduction to Prosthodontics master’s thesis research. 1b (2 total)
This course is an introduction to the master’s thesis research for prosthodontic residents. Prosthodontics is the branch of dentistry pertaining to the restoration and maintenance of oral function, comfort, appearance, and health of the patient by the restoration of natural teeth and/or replacement of missing teeth and contiguous oral and maxillofacial structures with artificial substitutes. The scientific research has greatly contributed to the advancement of prosthodontics as well as the whole spectrum of dentistry. In this course, the important components of a master’s thesis, the keys to success in master’s thesis research, the potential areas of prosthodontic research, the strength and advantage of University of Michigan Dental School in conducting prosthodontics-related research, will be presented and discussed. Faculty members of BMS department will be invited to present the potential research projects suitable for master’s thesis. In addition, the important components of a research proposal will be discussed and students will learn how to write a research proposal.

634. Principles of Complete Denture Prosthodontics. Ia (1)
Discussions covering current and historical literature on topics directly related to complete denture construction.

636. Prosthodontics Seminar on Implants. Ib (1)
This course consists of a series of seminars on the basic concepts and principles of dental implants for the prosthodontist.

638. Removable Partial Denture Theory. Ia (1)
This course consists of a series of discussions of the literature related to removable partial denture prostheses. The interrelationship of the biology of the supporting systems and the mechanical aspects of various removable partial denture designs and procedures are discussed.

639. Application of Partial Denture Theory. (Prerequisite: Pros 638) Ib (1)
This course consists of a series of seminars related to removable partial denture design and the clinical and laboratory procedures necessary to fabricate the chosen prostheses. Extracoronal and intracoronal prostheses are discussed.

640. Removable Partial Denture Design. Ia (1)

This course is a continuum of Course 638 which will prepare students at the in-depth knowledge level for the design of removable partial dentures for Kennedy Class I, II, III, & IV situations of partially edentulous mouths. The student will prepare a properly written work authorization for clear communication with dental laboratory.

643. Clinical Prosthodontics. I, II, III (maximum 54)

This course contains clinical experience that involves the treatment of dentate and edentulous patients that require extensive treatment. Patients are matched to the student’s expanding abilities and will progressively increase in complexity. Patients will require interdepartmental treating planning, fixed and removable restorations, and implants.

645. Investigation Leading to Thesis. Usually Ib, IIb, Illa and b (maximum 7)

The student is required to undertake a specific topic for intensive study and investigation – can be taken any term.

646. Maxillofacial Prosthetics Seminar. Ila and b (1)

This course is taken during two terms. Term I is introductory and discusses the management of acquired maxillofacial problems. Emphasis is on head and neck oncology and multidisciplinary rehabilitation of cancer patients. Term II builds on Term I and discusses the management of congenital and acquired maxillofacial defects. Emphasis on multidisciplinary management of patient problems continues. Both terms require participation with written and oral presentations.

650. Complex Prosthodontic Treatment Planning Ia and b, Ila and b (1 each term enrolled)

The student will take part in this seminar series whose intent is to bridge the gap between the school and private practice of Prosthodontics. Students will present patient treatment plans for discussion by their peers and faculty with an emphasis on treatment options and plans of treatment.

739. Clinical Procedures in Crown and Bridge Prosthodontics. Ia (2)

This is a weekly seminar and literature evaluation course that explores the steps in producing a total mouth reconstruction with fixed restorations. The research, theories, and principles are explored that substantiate the clinician’s treatment of patients. These topics include preparations, temporization, posts and cores, centric registration, occlusion, diagnosis, impressions, and cementation. Precision attachment removable partial dentures using the stable base principles are presented.
800. Teaching Practicum. Illa and b (2 total)

During the third year of the program residents will take part in the fall term pre-clinical Complete Denture and winter term Removable Partial Denture courses. They will act as row instructors for 8 D-2 students giving them a practical experience in dental education.

875. Mandibular Movement and Functional Occlusion. Ib (1)

This is a seminar, laboratory, and clinical course in the theories and principles of the procedures for locating the terminal hinge axis for recording mandibular movements and for setting an adjustable articulator. Students practice these principles in the laboratory and clinic. The recorded mandibular movements are related to functional waxing of occlusion.

(Prerequisite: Pros 875) Iia and b (4 total)

This seminar covers philosophy of practice and patient management, psychological implications, establishment of a restorative practice, TMJ dysfunction (causes, diagnosis, treatment approach and restoring problems, and pantographs), uses and abuses. There are weekly reading assignments and summary papers. It also covers stable base appliances, deep overbites, hemi-sectioned teeth, cantilever bridges, incisal guidance, vertical dimension, centric relation, maintenance and repairs, implants, and research in impression materials and cements. Students prepare and present a seminar. There are weekly readings of research literature exploring each of these topics.

882. Ceramo-Metal Restorative Procedures. II (2)

This course provides lecture and hands-on laboratory experience in the steps to construct ceramo-metal restorations. Students will make crowns and bridges with varying designs. The research will discuss the porcelain-metal bond, framework design, anatomical internal shading, alloy selection, esthetic contouring and external staining.