



School of Dental Medicine
University at Buffalo *The State University of New York*

**Elective Course Brochure for the
Class of 2018**

FALL 2017 COURSE DESCRIPTIONS AS SUPPLIED BY INSTRUCTOR

(For the description of courses not listed, please see instructor listed on the spreadsheet)

ORB 519 Critical Analysis of Literatures – 1.0 credit

The goal of this course is to train the graduate students from Oral Biology Graduate Program to read and present research papers in the field of microbiology, immunology and cell biology. The papers presented by students must be recently published in peer-reviewed journals. This course runs on each Friday between 12:00~1:00 pm at 215 Foster Hall.

ORB 545 RD The Dynamics of Bone – 2.0 credits Offered Fall Only

Please note this is a graduate course, which will follow the graduate school calendar (Not Dental).

The composition and structure of bone will be reviewed. Mechanisms involved in and regulating matrix formation, nucleation, and crystal growth, will be considered, including means of studying those. Effects of hormones, vitamins and trace metals will be examined. The relation of these to growth and resorption and the pathophysiology of alveolar bone disease are included.

OS 506 Oral Sciences: Biomaterials – 1 credit

This course reviews and builds upon your prior knowledge of the properties and applications of polymers, metals, and ceramics used for restoration of oral health. Methods used for characterizing these materials are emphasized, with a focus on the intended use of materials in general dentistry and clinical specialties. The regulatory aspects of dental and biomedical products also are addressed.

OS 512 Research Design in the Oral Sciences – 2.0 credits

This is a seminar course based on reading a few published articles each week, and then writing one or more assignments each week, which are turned in, discussed, and graded. The general goal is for the student to learn the principles of research design and to be able to apply them.

Course Purpose - New information enters a profession through publications and presentations, but some of these publications and presentations are mistaken, incomplete, biased, or fraudulent. Thus, one should learn to receive these sources of information critically and skeptically. The purpose of this course is for the student to be able to use the broad principles of research design for that critical and skeptical reception. (The other essential ingredients for critical and skeptical reception of new information are basic science mechanisms and statistics. Mechanisms and statistics are not part of this course.)

OSU 861 Oral Surgery Seminar - 1.0 credit

This course starts promptly at 7:45 AM on Thursdays during the entire spring semester in an informal discussion setting. A handout with questions for the entire semester is distributed on various topics including medicine, dentoalveolar surgery, trauma, office emergencies, drug therapy, etc. The questions are worded in a case presentation format that will produce open discussion. The answers should be researched in advance to maximize the learning experience. There is no final exam, but weekly attendance and active participation in the discussions are required to successfully complete this course.

OSU 864 Lasers in Dentistry – 1.0 credit

This course will introduce the student to basic laser principles and applications in dentistry. Laboratory sessions are designed to provide hands-on experience with lasers and laser interactions with tissue. Clinical demonstrations are also utilized. Topics include: laser physics, laser-tissue interactions, laser applications in dentistry, techniques, laser safety, complications, case presentations, laser laboratory exercises, and clinical demonstrations, when available.

OSU 866 Oral Surgery Elective - 0.5 credits

In small group format, selected topics of interest pertaining to the care of oral surgical patients will be discussed. Each student will be expected to select 1-2 topics and will be responsible for preparation and presentation of his/her topic, after which group discussion will take place. At the conclusion of this course, students will be able to critically analyze medical and dental literature and present a clinical or scientific topic to a medical dental peer audience. Students will also be prepared to communicate effectively with other medical and allied medical professionals involved in the care of these patient

PDO 840 Elective Pediatric Dentistry Clinic - 2 credits

Fall and Spring

This course gives students additional experience in pediatric enteral moderate sedation with a strong didactic component. This will be a 10 lecture series (5 per term) given during the fall and spring semesters. PALS training will also be provided on a weekend during the first term. Additional rotations of clinical sedations, simulation center training and hospital anesthesia rotations will be incorporated into the curriculum.

PDO 855 Pediatric Dental Procedures – 4 credits

Dr. Creighton & participating faculty 4.0 credit hours, Summer/Fall semester (REQUIRED) This course consists of rotations throughout the pediatric clinics in addition to supplemental experiences with pediatric dental residents. This will expose the students to additional operative/hygiene procedures, operating room and sedation cases, special needs and specialty clinics, on-call experiences, didactic lectures and outreach events.

PDO 860 Literature Review – 1.0 credit

(Required for Pediatric Dentistry Concentration)

This is a seminar course designed to familiarize the student with the literature in the field of clinical pediatric dentistry. Selected topics will be discussed, and the student will be expected to read broadly in the current literature. An oral presentation on a selected topic is required. This course will not conflict with Sports Medicine RDN 855.

PER 862 Clinical Periodontal Therapy – 1.0 credit **Course given every other Wednesday**

This course will consist of two components

- 1) observation of periodontal and implant therapy on patients being treated by the Periodontology participants in the University Dental Associates Group. Every student is required to attend one Saturday per semester or if a student patient cancels, student may observe faculty during this time. Students who desire to attend more clinical procedures can do so based on availability.
- 2) Attending two seminars a month on contemporary periodontics and implantology (time and place to be arranged, tentatively every other Wednesday.)

Maximum to attend: 20 - Preference given to Perio Concentrations.

PER 914 Post Graduate Treatment Planning – 1.0 credit

Although this is a Post Graduate course, students pursuing a concentration may attend. There is a limit of 5 students; please see Barb Sutton in 250 Squire to register.

RDN 853 Advanced Prosthodontics for the General Dentist – 1.0 credit

Course Director: Dr. Jennifer A. Kuracina

This course exposes the student to an array of advanced topics in prosthodontics not currently presented to great extent in the core curriculum. Topics include: diagnosis and treatment planning for the complex prosthodontics patient, including when to refer to a specialist; dentofacial esthetics and concepts of occlusion as a basis for nonconformative restorative treatment; all-ceramic systems and their indications; laboratory communication and shade selection; digital dentistry; a review of complete denture concepts; overdentures and attachments; and implant treatment in the esthetic zone. The class meets once a month for eight sessions over two semesters. It is a required course for those pursuing a concentration in prosthodontics

RDN 855 Sports Dentistry - 1.0 credit

(Course begins in Fall and continues into Spring semester. Students must register for both sessions.)

Sports Dentistry focuses on dental issues frequently encountered in athletics. The main topics will be prevention and treatment of dental injuries and establishing community-based sports dentistry programs. Included is a review of protective athletic equipment, an assessment of different types of mouth guards as well as fabrication of custom mouth guards. A review of management of dental injuries is included as well. Other topics covered in the course include issues that affect athletes more than the general population, such as eating disorders, use of smokeless tobacco, and concussion injuries. A hands-on section of the course will be fabrication of mouth guards for athletes on various University sports teams.

RDN 861 Worst Case Scenario (Dental Practice Management) - 1.0 credit

Most practice management courses focus on building and maintaining a practice, and increasing efficiency, with resultant increases in income. With the increased number of dentists, the combined forces of marketing and managed care, as well as the overwhelming intrusion of insurance into the practice of dentistry, significant changes have taken place in the dental enterprise. The old "fee for service" system has not died but is weakening daily under the onslaught. In this new atmosphere, it is almost impossible to teach what to do when that very concept is an enigma. Therefore, in this elective, we will approach the subject of practice management from the null hypothesis, teaching what not to do rather than what to do. In this "Worst Case Scenario" approach, the negatives are closely examined in hopes of avoiding negative results. A partial list of topics to be covered include: Problem Solving and Planning for the Future, Finance Management, Retirement Planning, Insurance, Liability and Risk Management, Record Keeping and Use of a Financial Planner. This course expands on the material covered in the department's required courses and approaches each topic from a unique perspective.

Course Director: Joel Paull, DDS, MD, JD, LLM, MBA

RDN 864 Advanced Adhesive Dentistry – 1.0 credit

Course Director: Robert J. Yetto, DDS

The purpose of this course is to develop a deeper and broader understanding of contemporary restorative dental techniques, materials and treatments than is currently taught in other restorative courses. In depth case presentations and discussion regarding preparation design and material choice for direct and indirect anterior and posterior restoration will be covered, including elective procedures such as veneers. Emphasis will be placed on non-metallic restoration of the adult dentition with an eye towards a superior esthetic and functional outcome.

This course will provide students with an overview of both new and conventional techniques and materials systems important in the daily practice of contemporary restorative dentistry. Exposure to the most current theories in smile design, direct and indirect restoration material choice and preparation design for both anterior and posterior restorations will give the student an understanding of the critical thinking skills employed by the practitioner in everyday clinical practice. It is a required course for those pursuing a concentration in esthetics.