

School of Dental Medicine

*Senior Electives
Spring 2017*

Class of 2017

Spring 2017 Senior Elective and Concentration Courses

Please refer to spread sheet for registration information.

ODS 850 Forensic Dentistry - 1.0 Credit

Forensic Dentistry represents a specialty of the forensic sciences concerning dentistry and the law. This course will be introductory providing insight into aspects of victim identification, mass disasters, and bite-marks. The course will be taught with cooperation from the Medical Examiner's office of Erie County. The course may include an autopsy demonstration at the Medical Examiner's Office. Students will be introduced to the Laboratory for Forensic Odontological Research at the School of Dental Medicine.

ORB 520 Critical Analysis of Literature - 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.

OS 504/ORB510 Saliva and the Oral Microbiome - 4.0 Credit

This course is a combination of lectures, student presentations and discussions, focused on current research advancements in the fields of salivary gland biology and oral microbial ecology. The course will be divided into two units. Unit one will focus on fundamental principles of salivary gland development, function and diseases affecting the gland. Unit two will focus on microbes of the oral cavity including microbial-related diseases of the oral cavity, host responses to these diseases and the oral microbiome. Students will meet twice weekly. Introductory lectures on each topic will be given on the Monday of each week and research papers will be discussed in detail on the Wednesday of each session. Students will be responsible for presenting these papers to the class, with guidance from the course instructors.

OSU 865 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.

PDO 840**Sedation – 1.0 Credit**

This will be an introduction to sedation for dental students taking PEDO selective rotation. The aim of this module is to give these students additional experience, in pediatric sedation with a didactic component, a practical exposure to moderate enteral sedation and a SIM session to overview airway management skills that are important. This will be an invaluable introduction to this important topic, and for the others, sedation experience and knowledge is never wasted.

Pre-requisites: 4th dental student

In good standing with respect to grades
Pedo. Selective

PDO 863**Advanced Pediatric Dentistry - 1.0 Credit
(Course Director must approve registration)**

This course is designed for senior dental students to experience the full range of pediatric dental dynamics. Special attention is given to the pediatric dental patient with extensive caries and/or a history of difficult management. Under close faculty support, the dental students will be guided through such procedures as pulpotomies, crowns, interceptive orthodontics, and quadrant restorations. Instruction in the use of premedication is also given where indicated.

PER 864**Clinical Periodontal Therapy - 1.0 Credit**

Spring Course will focus on esthetic and periodontal microsurgeries and interdisciplinary comprehensive treatment outcome. Seminar focus will be on Periodontology plastic surgery and Periodontology implant multidisciplinary treatment. This course will consist of two components

- 1) Hands on assisting 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 surgical session per semester. 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.)

* Preference given to Perio Concentrations.

RDN 853**Advanced Prosthodontics for the General Dentist – 1.0 Credit
Two Semester Course – fall course is a prerequisite**

This senior level elective aims to introduce the students to an array of more advanced and current topics in prosthodontics not covered to great extent in the present curriculum. The object is to present evidence-based information to augment the basic prosthodontic curriculum with the following topics:

- Diagnosis and treatment planning (Prosthodontic Diagnostic Index)
- Smile design, occlusion and the diagnostic waxup
- All-ceramic restorations: materials and their selection
- Shade selection and laboratory communication
- Soft tissue management for implants in the esthetic zone
- A review of removable prosthodontic concepts
- Overdentures and attachments
- The role of digital dentistry restorative dentistry.

The lecture series is to be once a month over two semesters. Dates for spring semester are **1/12, 2/9, 3/9, and 4/6**

Course offered on alternate Thursday's and does not conflict with RDN872.

Please contact Sheryl Harvey at saharvey@buffalo.edu if interested in registering for both RDN853 and RDN872.

* This course is required for those pursuing a concentration in prosthodontics.

RDN 859 SPR Fixed Prosthodontics: The Interdisciplinary Specialty - 1 Credit

Emphasis will be placed upon diagnosis and treatment planning, occlusion and the periodontic, endodontic, and implant considerations in Fixed Prosthetic treatment, and an opportunity to integrate all the disciplines into a "Total Clinical Approach." A differentiation will be made in covering philosophy and techniques with Advanced "Esthetic", "Crown and Bridge", "Periodontal Prosthesis" and "Implant" cases. Smile Makeover concepts along with an introduction to minimal prep veneer case selection and techniques will be covered. Time will also be spent on Tooth Preparation based on restorative material selection, and on Temporization techniques and utilization of Temporary Acrylic and Bis-GMA materials for Provisional Crowns and Bridges. Selected cases will be presented from start to finish and will include functional impact on esthetic design of cases.

* This course is required for those pursuing a concentration in prosthodontics.

RDN 867 Implant Dentistry Seminar – 1.0 Credit

Through active participation students will familiarize with several aspects of implant dentistry. The following topics will be covered: Diagnosis, Treatment Planning, Surgical Techniques, Different Restorative Options, Maintenance Protocols and Treatment of Perimplantitis. Students will be required to each present a case with power point presentations, models and radiographs. Hands-on training sessions are included in the course.

Eligibility to attend a two-day implant course with residents is preferred.

Course meeting days TBD. This course does not conflict with RDN853. Please contact

Sheryl Harvey at saharvey@buffalo.edu if interested in registering for both RDN867 and RDN853. Registration is by approval of course director.

* This course is required for those pursuing a concentration in prosthodontics.
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RDN 872 C Independent Study/Sports Dentistry Continuation - 0.5 Credit

This Course is **limited** to those students who completed RDN 855 in the fall semester.

Sports Dentistry deals with dental issues frequently encountered in athletics. This course will focus on prevention and treatment of dental injuries as well as other concerns such as eating disorders, use of smokeless tobacco, and establishing community based sports dentistry programs. A major part of the course will be fabrication of mouth guards for athletes on various University sports teams.

Course offered on alternate Thursday's and does not conflict with RDN853. Please contact Sheryl Harvey at saharvey@buffalo.edu for registration assistance.