

CLD832 - Comprehensive Care Clinic II (A)

Comprehensive care is defined as the diagnosis, prevention and treatment needed to restore optimal oralhealth, function and appearance. The School's pre-doctoral students manage their patients comprehensively. This includes referral of their patients to the School's advanced education programs when indicated, while always maintaining oversight of the patient's overall care.

Clinic Courses Included in the Comprehensive Care Clinic Sequence

Early Fall Session: Starting point for CLD831

Third Year (D3): CLD831, Fall Semester –3.0 credit hours

Early Fall Session (D4 students) follows the Third Year (D3):

This clinical session enables students to provide continued patient care and to gain additional clinical experience. For D3 students who have satisfied all qualitative and quantitative requirements, the Early Fall Session marks the beginning of the Fourth Year. For D3 students who have not satisfied all qualitative and/or quantitative requirements, the Early Fall may provide an opportunity to make up performance deficiencies. If a student does not satisfy all qualitative and/or quantitative requirements of each discipline course they will be assigned an extended clinical session, dates to be determined by Group Director and Associate Dean for Clinical Affairs, to complete assigned requirements. If the student has not satisfied all qualitative and/or quantitative requirements after the extended session they will not be promoted to the D4 year. The determination of whether a student repeats one or both semesters of D3 versus assignment of an extended clinical session will be made by the Executive Council based on the recommendation of the Student Progress and Promotions Committee.

Early Fall carries no credit hour designation. Clinical treatment that is completed during Early Fall sessions is credited to the students overall clinical requirements.

Fourth Year (D4):

CLD841, Fall Semester–3.0 credit hours

CLD842, Spring Semester –3.0 credit hours

CLD838 - Treatment Planning & Cases II

The course will be based on team-based learning. The purpose of the course is to facilitate student learning through group activities focusing on evidence based literature, observing D4 case presentations and participating in class discussion. D3 students are divided into presentation groups. Each group will present an evidence-based published article one time during the academic year in either the Fall or Spring semester.

ODS831 - Management of the Medically Complex Patient

The evaluation of the medically complex patient is integrated with management techniques for appropriate treatment planning and treating of those patients in this course.

CLD847 - Advancement into the Dental Profession

This one-credit-hour Spring course serves as a bridge between Introduction to the Profession (CLD800) and Ethics and Law in Practice Management (RDN821) courses first and second years and the Oral Healthcare Management (RDN841) course in the fourth year. The course consists of several topics designed to encourage student reflection on their first full year of clinical practice and to extrapolate those reflections to their future practice settings.

ODS832S - Oral Radiology Clinic III

Third-year students with faculty supervision, will provide bitewing, periapical, occlusal and full-mouth series of radiographs as per electronically written referral for new, reassigned, and emergency UB SDM predoc patients. The proper use of equipment, shielding, exposure settings, infection control, patient management, quality assurance, image processing, storage, and record documentation will be reinforced. Radiographic reviews will take place with the student as part of quality assurance and interpretation instruction. The radiology faculty review all rotation radiographs prior to storage in the patient electronic record.

A case-based seminar “Panoramic Review” will augment the student’s clinical experience to improve radiographic diagnosis, and the review of normal anatomy and pathology of the orofacial complex will provide opportunities for clinical and radiological discussion.

The charting of full-mouth series of radiographs taken by students and the one-to-one review with radiology faculty will improve their understanding of technique, accuracy and parallelism, and procedures used to avoid and correct technical errors, while increasing their ability to discern normal anatomy, caries, restorations, periodontal disease, artifacts and pathology and provide opportunities for clinical and radiological discussions. Students will become more familiar with digital image enhancement tools including: contrast, inversion, colorization, edge-enhancement, magnification, measurements, descriptions, calibration, annotations, and diagnostic comparisons.

The student assigned to rotation will be responsible for cleaning and maintaining the clinic x-ray rooms, equipment and scanning stations. The referred student will arrive with an electronic “treatment in progress” order for radiographs while their patient waits in the radiology waiting room. When an x-ray room and scanning station are available, the referred student will sign into axiUm and locate their patient. The referred student will sign into the paper radiographic log and complete all of the requested information.

The rotation student will image the patient. Each student assigned to the rotation, will serve as a Designated Digital Scanner to reinforce the skills required for digital radiographic processing including reserving MIPACS, selecting a template, reserving the scanner, scanning images, correcting mirrored and rotated images, remounting a series, describing a series, recording the exposure in the Series Description, saving to the DICOM server with faculty approval, access the patient (E.H.R.) Electronic Health Record and complete the radiographic note. Radiology faculty will approve the Radiographic Note in axiUm prior to the patient dismissal. The total radiation exposure is documented in MIPACS, in the axiUm radiographic note, and in the Radiology Log.

ODS834 - TMD and Orofacial Pain

Temporomandibular disorders (TMD) and other orofacial pain conditions are a significant health problem with prevalence comparable to other major dental diseases. As such, every dentist is obligated to know and to understand the current state of our knowledge regarding the etiology, pathophysiology, differential diagnosis and management of these disorders. This course, therefore, provides basic information necessary to develop such an understanding. The lectures and assigned reading encompass masticatory muscle disorders such as myalgia, myofascial pain with referral and headache attributed to TMD. Intra-articular conditions such as degenerative joint disease, subluxation and disc displacements. The course also provides information on orofacial pain conditions such as trigeminal neuralgia, temporal arteritis, Eagle's syndrome and primary headaches.

An important aspect of this course is to develop a good understanding of the process and procedures involved in the differential diagnosis of these conditions. Thus, the course provides important information on patient evaluation, including those behavioral and psychosocial factors that may influence a patient's symptoms or response to treatment. The principles and modalities of treatment, including the appropriate roles of behavioral, physical, pharmacological, occlusal, interocclusal appliance, and surgical therapies are also essential components of this course.

ODS838 - Clinical Diagnosis II

This clinical course tests the ability of 3rd year dental students to present a patient to a senior faculty member and demonstrate an appropriate comprehensive head and neck exam. Medical history, a review of the patient's medical problems, vital signs analysis, oral cancer risk assessment, and head/neck physical examination are performed while being reviewed by faculty. A grade is assigned, based on the thoroughness of the patient presentation and examination by the student.

ODS842 - Dental Management of Patients with Special Needs

Increasingly, the practicing dentist is likely to see an a rising number of older patients and patients with developmental and acquired disabilities. This course introduces students to a variety of topics pertinent to understanding and treating older people and people who have special needs. Changing demographic and social trends, the basic science of aging, as well as focus on the tissues/diseases most relevant to the dentist are addressed. Specific issues associated with treating the older person and those with a disability in the community and society's institutions will be presented.

OSU832 - Oral Surgery II

This required course in Oral and Maxillofacial Surgery follows coursework and pre-clinical courses in Local Anesthesia (OSU822) and Oral and Maxillofacial Surgery I (OSU831) and occurs concomitant with oral and maxillofacial surgery clinical rotations. Didactic instruction will consist of lectures and suggested readings. It is the second in the two semester sequence required of all junior students. While OSU831 covered the basic principles and techniques in oral and maxillofacial surgery, OSU832 covers principles and techniques of more complex oral and maxillofacial surgery procedures including maxillofacial infections, trauma, cancer, reconstructive and orthognathic surgery, sleep apnea, and facial cosmetic surgery. In addition, patient evaluation, outcomes and complications of these more advanced procedures is discussed in greater depth than in OSU831.

OSU834 - Oral & Maxillofacial Surgery Clinic II

The students will function in the various clinical environments with responsibilities including performance of patient assessment and triage, plus dentoalveolar surgery, assisting/observation of complex dentoalveolar surgery and observation of conscious sedation administration. The urgent care portion includes diagnosis of any dental or dentally related conditions, temporization and referral to appropriate specialists when indicated.

OSU836 - Anesthesia & Pain Control

This required course in Anesthesia and Pain Control follows coursework and preclinical courses in local anesthesia plus the Oral Surgery Boot Camp (OSU837). Didactic instruction will consist of lectures, selected demonstrations and suggested readings.

Course material to be covered will include modern techniques for the reduction of anxiety and apprehension via pharmacological and non-pharmacological means available in modern dental practice.

Methods and techniques for the administration of conscious sedation, deep sedation and general anesthesia will be discussed with emphasis placed on the safe and effective use of modalities applicable to dental practice. The second major emphasis of this course will be in modern theory and practice of acute and chronic pain control predominately of the pharmacologic variety with non-pharmacologic methods to be introduced later in the sequence.

ORT832 - Orthodontics & Orthodontics Technique

This course combines lecture with lab in order to reinforce learning of core introductory principles and appliances of orthodontics, including theory, fabrication and use of several representative removable and fixed orthodontic appliances. This course enables the student to distinguish those cases which can be treated by a general practitioner from those that should be referred to an orthodontist. This course incorporates a number of didactic and clinical technologies to support instruction, as follows:

- axiUm software for dental education management
- UB Learn(Blackboard) course management system
- Support live lab demonstrations, project requirements and procedures with online videos/YouTube
- Support lecture content with online videos/YouTube

PDO832 - Pediatric Dentistry II

This course is uniquely designed to incorporate a modular curriculum building upon the foundational principles taught within Pediatric Dentistry and Clinical Practice I. A stepwise approach to learning will be utilized and includes didactic instruction through case-based lectures (CBL), followed by clinical simulation exercises (CSE) and culminating in direct patient care (DPC).



Students will be introduced to new concepts, while reinforcing the basics in the distinctive aspects of pediatric care in the dental environment. Further exposure to the physical, cognitive, emotional and social aspects of the pediatric population coupled with the epidemiology of oral disease at that age will be explored. Students will acquire a deeper understanding of the fundamentals of the developing dentition, as well as gain exposure to varying pathologies, syndromes and anomalies that may occur in this population. Skills in the methods of basic and advanced behavior guidance will be developed. Students will also gain knowledge in the management of pediatric medical emergencies. As well, interceptive orthodontics will be addressed with respect to its application in the pediatric population. Students will continue to gain an understanding of the relationships within the treatment triangle and the importance of child advocacy.

PER832 - Surgical Perio Therapy

PER832 "Surgical Periodontal Therapy" is a continuation of PER831 "Non-Surgical Periodontal Therapy." Whereas PER831 focuses on the diagnosis and non-surgical treatment of different forms of periodontal disease. PER832 focuses on the surgical treatment of periodontal diseases and is designed to prepare D3 students to understand periodontal surgical treatment options. This course builds on and assumes proficiency from the first two and a half years of dental school. Satisfactory completion of PER831 is a prerequisite for PER832.

PER832 consists of:

- Lectures
- Reading assignments
- In-class quizzes/assignments
- 1 midterm examination
- 1 final examination

PER834 - Periodontics Clinic II

This clinical course is designed to increase your knowledge and improve your technical expertise in the delivery of periodontal therapy and its role in maintaining oral health.

PER837 - Endodontics Clinic II

This course is part of the combined third-and fourth-year integrated clinical program, specifically addressing the endodontic needs of the patients of the School of Dental Medicine.

RDN833 - Fixed Prosthodontics II

RDN833-II (RDN833S) is a lecture series in the Spring semester of the Third Year of the DDS program.

RDN834 - Fixed Prosthodontics Clinic II

The course entails those same clinical procedures which are initiated with [a] review and recording of medical and dental history; [b] recognition and recording of individual's chief concern (complaint); [c] data gathering and recording during a clinical patient examination and radiographic survey; [d] followed by definition of a problem list with associated treatment options; [e] then definition of a patient specific plan of treatment.

This is followed by a series of treatment procedures that are attendant to fixed restorative dentistry including [a] foundation restorations; [b] tooth preparation, shade selection and; [c] tooth provisional stabilization; [d] tissue displacement and tooth impression; [e] laboratory preparation of working casts mounted on a semi adjustable articulator; [f] completion of laboratory work authorization; [g] and culminated with refinement and definitive placement of an indirectly fabricated restoration. Included throughout this treatment sequence are an ongoing assessment of patient compliance and education in oral hygiene procedures and review of patient responsibilities once active treatment is complete. This approach to patient treatment is repeated with multiple patients across the third clinical year with a minimum of treatments required to satisfy the course criteria.

RDN835 - Cariology & Direct Restorations IV

This Year 3 Spring semester (D3 Spring) lecture course follows the caries management and direct restorative dentistry preparations and restorations that were taught during in the D3 Fall course. Emphasis will be placed on caries risk assessment for individualizing patient preventive and treatment planning. Minimally Invasive treatment and Evidence-Based care will be stressed. One third of the course will address Esthetic and Cosmetic Dentistry. Statistics and Evidence-Based Dentistry will be featured.

RDN836 - Operative Clinic II

Operative Dentistry is the art and science of dentistry that deals with the prevention and diagnosis of caries, its management based on risk assessment, the restoration of individual teeth to proper occlusal function and to a form which is in harmony with surrounding hard and soft tissues. This 3rd year patient-centered clinical experience in Operative Dentistry puts into practice what was learned in the 2nd year Operative Preclinical course series (RDN809/810) and 3rd year Operative didactic course (RDN835), and serves as the foundation for the comprehensive patient treatment of the 4th year.

RDN838 - Removable Prosthodontics IV

RDN838 Removable Prosthodontics IV is a continuation of RDN837 Removable Prosthodontics III, and it assumes knowledge from all the courses provided in the first two and a half years of dental school (RDN824, RDN826 and RDN837).

RDN838 focuses on the diagnosis, treatment planning, design and prosthetic rehabilitation of the partially edentulous state, while it reinforces the previously attained knowledge of the predoctoral student on complete denture rehabilitation and introduces more complex patient care. By the end of this course, the student should have obtained and reinforced theoretical foundation on conventional removable prosthodontics.

By the end of this course, the student should have obtained a strong theoretical foundation for removable prosthodontics. In addition, it is the intent of this course to familiarize the student with certain aspects of prosthodontics that may or may not have a clinical component in the school curriculum but remains an area in which the student should have exposure to.

RDN839 - Removable Prosthodontics Clinic II

This course is part of the combined third-and fourth-year integrated clinical program. The overall goals, objectives and methods of evaluation are consistent with those of third year Comprehensive Care Clinic courses CLD831 and CLD832.

RDN845 - Implant Dentistry Clinic I

This clinical course series provides basic clinical experience in the replacement of missing teeth with dental implants.