

ADULT RESTORATIVE DENTISTRY (ADRS)

ADRS 326 DENTAL MATERIALS 2 Credit Hours

This course is designed to provide foundational knowledge in basic and applied dental materials science. The didactic component introduces the student to the basic composition of dental materials, their mechanical and physical properties, and the manner in which material properties are affected by variations in manipulation. The laboratory component is designed to reinforce didactic concepts through the conduct of mechanical and physical property tests, and hands-on manipulation of selected dental materials.

Typically Offered: SPRING

ADRS 529 DENTAL ANATOMY 3 Credit Hours

A lecture-laboratory course studying the development, form, function and static relationships of teeth in the human dentition and the proper terminology needed to identify structures of the human dentition. Evidence Based Decision Making will be introduced. Students also develop skill at working with spatial relationships by developing models of teeth to proper contours using hand-formed plastic materials.

Typically Offered: FALL

ADRS 530 OCCLUSION 2 Credit Hours

The primary goal is to relate the anatomical elements of the masticatory system in such a way as to adequately prepare students for dental procedures requiring the alteration or modification of this system. A more all-encompassing objective will be to incorporate anatomical elements into the essentials of how the maxillary and mandibular teeth articulate in function and parafunction. The clinical significance of occlusal variation and the clinical implications of occlusal alteration will be related to restorative dentistry treatments.

Prerequisite: ADRS 529.

Typically Offered: SPRING

ADRS 531 INTEGRATED BIOMATERIALS, CARIOLOGY, AND OPERATIVE SCIENCES I 4 Credit Hours

An integrated lecture-laboratory course covering the principles of Cariology, conservative cavity preparations and restoration of the adult dentition using dental amalgam, composite resin, and glass ionomer cement with emphasis on the understanding of materials science principles and how they relate to the clinical handling of dental biomaterials.

Typically Offered: FALL

ADRS 532 INTEGRATED BIOMATERIALS, CARIOLOGY, AND OPERATIVE SCIENCES II 4 Credit Hours

A lecture-laboratory course concerning advanced applications of direct restorations and the principles of tooth preparation and fabrication of indirect restorations. Principles of esthetic dentistry will be introduced.

Prerequisite: ADRS 531.

Typically Offered: SPRING

ADRS 540 ADULT RESTORATIVE DENTISTRY EVIDENCE-BASED DENTISTRY PRINCIPLES 1 Credit Hour

A lecture/small group course designed to introduce Evidence-Based Dental Practices, providing an overview of the basic concepts needed to assist in making use of evidence to inform clinical decisions. The student will learn how to formulate questions that are easy to answer using scientific literature, effectively search for relevant evidence, identify the strengths and limitations of different study designs and interpret the findings and apply the findings to clinical decisions.

Typically Offered: SUMMER

ADRS 556 CARIOLOGY 1 Credit Hour

This course combines lecture and laboratory aspects that present dental caries as an infectious and controllable disease. The relationship between basic science and clinical application will be a central focus in preparing the student to be able to develop patient-specific strategies for the management of dental caries.

Typically Offered: SPRING

ADRS 559 PHYSICAL ASSESSMENT, DIAGNOSIS AND TREATMENT PLANNING 3 Credit Hours

Lectures and laboratory exercises will cover the following information: interviewing techniques and diagnostic processes; medical consultation techniques, evaluation of vital signs, ASA classifications, physical findings suggestive of systemic disease, patient drug use, and laboratory test results (glucose, A1C, INR, etc.); head/neck, and oral hard and soft tissue examinations. The course provides students with the foundational knowledge to perform a dental clinical examination and oral diagnosis of a patient starting with the initial contact. It introduces students to basic treatment planning concepts including treatment options, treatment sequencing and case presentations.

Prerequisite: ORBI 505, 506, 518, 539, 545

Typically Offered: FALL

ADRS 563 REMOVABLE PROSTHODONTICS I 4 Credit Hours

This complete denture course is designed to prepare the dental student to successfully provide treatment for the completely edentulous patient. At the completion of the course the student will be thoroughly familiar with the techniques, materials, equipment, supplies, and biological considerations necessary to fabricate complete dentures.

Prerequisite: ADRS 529, 530, 531, 532.

Typically Offered: FALL

ADRS 570 REMOVABLE PROSTHODONTICS II 2 Credit Hours

The study of the design, theory, and basic procedures in partial and complete denture construction. Diagnosis and treatment planning will be stressed through lectures, laboratory, and clinical demonstrations.

Prerequisite: ADRS 563.

Typically Offered: SPRING

ADRS 573 PRINCIPLES OF PREPARATION DESIGN 2 Credit Hours

This course is designed to introduce the student to the restoration of compromised and damaged teeth with full coverage restorations. This is to be the UNMC student's first formal exposure to Fixed Prosthodontics. During the Fall semester course, the student will become acquainted with the procedures attendant to preparation and provisionalization of single teeth for full coverage restorations in a variety of restorative materials (including cast metal, all ceramic, and porcelain fused to metal). The student will be expected to develop a high degree of technical skill in preparations for the fabrication of precision restorations that will function in a biologic environment. The student will also learn to accurately perform critical self-assessment reflective of the evaluation required in clinical practice to fabricate functional, predictable restorations. It is upon the foundation acquired in this course, and other subsequent fixed prosthodontic courses, that the student will build the skills and judgment necessary to provide fixed prosthodontic treatment for clinical patients and pass national licensure examinations.

Prerequisite: ADRS 529, ADRS 530, ADRS 531, ADRS 532

Typically Offered: FALL

ADRS 574 FIXED PROSTHODONTICS I 4 Credit Hours

A lecture-laboratory course involving the diagnosis, treatment planning, basic principles of tooth preparation and procedures for the complete restoration of single teeth with extracoronary restorations and the replacement of one or more teeth using fixed partial dentures. The indication and methods for restoration of endodontically treated teeth are also included. Single crowns, fixed partial dentures, provisional restorations, prefabricated and cast post and cores will be fabricated in the laboratory portion of the course.

Prerequisite: ADRS 555, 563; Advanced Standing Dental Program Status.
Typically Offered: SPRING

ADRS 580 ADVANCED TREATMENT PLANNING 1 Credit Hour

This course is designed to build upon the Diagnosis and Treatment Planning concepts presented in ADRS 572 as well as incorporating EBD into the treatment planning process. Students are expected to properly input patient information into the CIS, diagnose dental concerns, phase and sequence dental coded treatment plan option(s) for patient based cases. Students will research, review, and present literature on a given dental discipline, topic, material, or procedure. Students will also be expected to actively participate in class discussions following research presentations.

Prerequisite: ADRS 572.
Typically Offered: SUMMER

ADRS 589 BASICS OF DENTAL IMPLANTOLOGY 1 Credit Hour

This course is designed that students will understand the role of implant dentistry in all aspects of diagnosis and treatment planning, surgical and prosthodontic procedures and be able to evaluate and maintain the implants and prostheses with follow-up care and education.

Prerequisite: ADRS 563, 570, 574
Typically Offered: SUMMER

ADRS 590 DIGITAL DENTISTRY I 2 Credit Hours

Lectures, online video with past assessments and clinical simulations will be presented emphasizing digital workflow in restorative dentistry. Pre-reqs: ADRS 529, 531, 532, 561, 562

Typically Offered: SUMMER

ADRS 593 TM DISORDERS AND SLEEP DISORDERS 1 Credit Hour

Lectures, clinics and on-line references focus on the diagnosis and treatment of temporomandibular disorders (TMD) and sleep related breathing disorders.

Typically Offered: SUMMER

ADRS 610 PRACTICE MANAGEMENT 3 Credit Hours

Practice Management emphasizes business management of a dental practice. Business management includes issues such as deciding about dental insurance participation as well as properly submitting dental claims. Understanding overhead control, financial statements hiring practices and practice valuations are covered as well.

Typically Offered: SPRING

ADRS 616 ADVANCED TOPICS IN RESTORATIVE DENTISTRY I 1 Credit Hour

This is a lecture course consisting, in part, of a review, reinforcement and update of clinical concepts, materials and techniques. Factors in treatment planning, the relationship of operative treatment to various dental specialties, and the interactions, impact with various conditions/situations of patient care are presented and discussed.

Prerequisite: ADRS 529, 531, 532, 561, 563, 572, 574, 590
Typically Offered: SPRING

ADRS 633 ADV TOPICS IN RESTORATIVE DENTISTRY II 1 Credit Hour

Lectures, clinical demonstration/participation exercises, and class handouts will be given with a focus on clinical procedures in Restorative Dentistry and to discuss contemporary treatment options with an emphasis on digital dentistry. Further exposure to the principles and theory of more advanced treatment procedures in Restorative Dentistry will be presented to supplement the basic concepts from ADRS 563, 570, 574, and 580.

Prerequisite: ADRS 563, 570, 574, 580, 590, 616
Typically Offered: SUMMER

ADRS 687 SEMINAR IN PRACTICE TRANSITION 2 Credit Hours

This course is designed to provide instruction needed for students entering private practice and other career tracks immediately upon or within a few years after graduation, particularly students who will start, buy or associate in a private practice. These areas receive particular focus: marketing, business planning, complying with government regulations, managing student loans, negotiating associateships, and ownership issues such as financing a practice, personal/business insurance needs, and leadership.

Typically Offered: FALL

ADRS 687A SEMINAR IN PRACTICE TRANSITION 0 Credit Hours

This course is designed to provide instruction needed for students entering private practice and other career tracks immediately upon or within a few years after graduation, particularly students who will start, buy or associate in a private practice. These areas receive particular focus: marketing, business planning, complying with government regulations, managing student loans, negotiating associateships, and ownership issues such as financing a practice, personal/business insurance needs, and leadership.

Typically Offered: SUMMER