

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
<p>DS1/FA – 7101F Human Structure and Function Part I</p>	<p>Studies the disciplines of biochemistry, cell biology, general microanatomy, and physiology. Since form and function are interrelated, how the two are integrated as they are taken from the cell levels through tissues and then to organ systems will be taught. Exposure to cellular and histologic structures of tissues and organs and the exploration of the relationship between structure and function will be discussed, along with the integrated homeostatic relationship of body systems. Special consideration is given to those areas specifically related to dentistry and oral health.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the cellular, biochemical, physiological and anatomical concepts related to the musculoskeletal, nervous, endocrine and digestive systems. 2. Describe the relationship between cellular, tissue and organ structure and function. 3. Develop a foundational knowledge base in human physiology and microscopic anatomy relating to oral health. 4. Describe the cellular and biochemical aspects of body metabolism and energetics.
<p>DS1/FA – 7102 Microbiological and Immunological Concepts, Part I</p>	<p>This course introduces the fundamentals of bacteriology and infectious diseases and the elements of the immune response to common pathogens. Clinical case studies will be used to illustrate infectious processes in oral and systemic diseases, with emphasis on infections of the oral cavity. The principles of infection control will be introduced.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> a. Explain microbiological and immunological concepts governing the human host-parasite relationship. b. Identify characteristics of common pathogens, and describe how these pathogens are identified and treated. c. Evaluate and discuss the role of vaccinations, prophylaxis and basic anti-microbial therapy in relation to microbiological disease. d. Discuss dental asepsis and aseptic technique. e. Critically evaluate relevant scientific literature based on their understanding of microbiological and immunological concepts.
<p>DS1/FA – 7109F Head and Neck Anatomy and Neuroscience Part I</p>	<p>Lecture content and clinical case-based learning are presented with corresponding laboratory sessions that illustrate the bones, muscles, nerves, and vasculature of the head and neck, with special emphasis on the embryology and structure-function relationship of each of these structures.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Comprehend the particular languages of gross anatomy and neuroanatomy. 2. Identify anatomical structures of the head and neck related to the practice of dentistry. 3. Correlate gross and neuroanatomical structures of the head and neck to their function and physiology in relation to various aspects of dental practice.

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<p>DS1/FA – 7111 Development and Structure of Oral Tissues</p>	<p>Development and Structure of Oral Tissues presents an overview of general human development and concentrates on the normal and abnormal development of the pharyngeal apparatus and orofacial region, including the development of the tooth and supporting structures and the histologic structure of mature oral tissues.</p>	<p>4. Describe the anatomical basis for the function and malfunction of structures in the head and neck.</p> <p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the basic developmental progression of the human organism 2. Build a foundational knowledge base in developmental anatomy to outline the issues associated with developmental defects 3. Critically evaluate relevant scientific literature based on their understanding of biochemical cellular, physiological and anatomical concepts. 4. Describe in detail the development of the craniofacial complex and the relationship of developmental issues to the practice of clinical dentistry. 5. Explain the basic features of craniofacial development, including the teeth and their supporting apparatus. 6. Build a foundational knowledge base in the normal development, histology and structure of the teeth and associated structures. 7. Discuss the relationship between the structure of the oral tissues, their function and pathology. 8. Describe the developmental errors associated with craniofacial development. 9. Critically evaluate relevant scientific literature dealing with craniofacial development and associated structures.
<p>DS1/FA – 7120 Introduction to Infection Control</p>	<p>Presents the principles of safe best practices and universal precautions in a dental environment, the use of disinfectants and sterilizing agents, the safe handling of biohazardous materials, and about the cross-infection potential of important human pathogens. A surveillance study of infection control in a clinical setting will be performed and documented.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the relevant history of the development of infection control. 2. Classify the various infection risks for dental office personnel. 3. Describe the Federal, State and Local rules and regulations related to infection control practices. 4. Explain the definition and purpose of Standard Precautions in Dentistry. 5. Distinguish differences between sterile, clean and contaminated surfaces within the dental setting.

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		<ol style="list-style-type: none"> 6. Describe the transmission, prevention and characteristics of infectious diseases that are relevant to the practice of dentistry. 7. Describe the engineering, work practice and administrative controls that protect dental personnel and patients. 8. Describe the procedure for handling impression and lab cases with potentially infectious material. 9. Explain the rationale for single-dose materials and supplies in a large educational setting. 10. Explain the procedures for care and reporting of sharps injuries.
<p>DS1/FA – 7123 Diagnosis and Treatment Planning I</p>	<p>This course is an introduction to diagnosis and treatment planning for the dental patient through the use of treatment outcomes and evidenced based dentistry. It structured to begin with the earliest patient contact through history taking, various examination procedures, interpreting clinical and laboratory findings, patient assessment and treatment planning concepts.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the techniques for obtaining a patient history 2. Identify and describe the components of a clinical examination 3. Interpret patient assessment and diagnostic data to formulate diagnosis and prognosis 4. Develop treatment objectives 5. Describe the risks, benefits, and alternative of treatment options.
<p>DS1/FA – 7125 Dental Anatomy and Occlusion Lecture</p>	<p>This didactic course is a designed to teach dental students the anatomical, morphological and functional aspects of the oral cavity. It introduces dental terminology and provides a comprehensive study of dental anatomy for adult and child dentitions. Detailed overviews in tooth morphology, their functions and supporting structures, eruption patterns, and root morphology are presented. Taught concurrently with DEN 7125L (Lab component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Identify primary and permanent teeth based on eruption sequence, coronal, root, and pulp anatomy, using various tooth numbering systems. 2. Evaluate restorations to determine what changes are necessary to assure harmony with the occlusion. 3. Apply dental anatomy nomenclature when identifying and describing teeth, restorations, and supporting tissues.
<p>DS1/FA – 7125L Dental Anatomy and Occlusion Lab</p>	<p>This laboratory course provides practice in applying the knowledge presented in DEN 7125. It is designed to help develop the psychomotor skills necessary to perform</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Safely utilize applicable dental instruments and equipment necessary for tooth wax-ups.

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	laboratory and clinical tasks that will be required for clinical practice. Taught concurrently with DEN 7125 (Lecture component).	<ol style="list-style-type: none"> 2. Wax and carve teeth in the permanent dentition to correct anatomical form, size, contour, and occlusion.
DS1/FA – 7140F DSI General Dentistry Clinic	Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the first year of study.	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the prevention and management of basic and common medical emergencies and their management at the UNLV School of Dental Medicine. 2. Discuss the evolving role of a dentist as a healthcare provider and how your professional identity relates to it. 3. Comply with universal precautions and clinic policies related to health and safety. 4. Identify intra oral anatomical landmarks relevant to the practice of dentistry, and in particular impression-making. 5. Demonstrate proper technique for making high quality alginate impressions. 6. Explain the different reasons for making dental impressions and the properties of the materials used in each type. 7. List the types of impression trays and when to use each type. 8. Describe the setting mechanism, manipulation technique and use of alginate impression material. 9. Identify gypsum materials, describe their properties, and explain how to handle them. 10. Photograph laboratory and clinical work to start a portfolio.
DS1/FA – 7154 Healthcare Delivery: Patient Records & HIPAA Regulations	Introduces the different components of the dental patient record and their relevance and importance to dental practice. Emphasis will be placed on the present and past systemic and oral health history, dental charting, dental imaging and its interpretation. Patient privacy and confidentiality issues will be discussed.	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Identify the components and contents of a dental electronic health record (EHR) and demonstrate the ability to accurately input information into a patient's EHR. 2. Explain patient privacy and confidentiality issues and how they influence today's healthcare system as well as recognizing a dental student's privacy and confidentiality issues. 3. Identify diagnosis and billing codes and describe their use in the practice of dentistry.

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		<ol style="list-style-type: none"> 4. Recognize common ethical and legal issues pertaining to patient records. 5. Discuss the medicolegal documentation that is required for a patient's dental record.
<p>DS1/FA – 7157 Patient Communication and Cultural Competency</p>	<p>This course discusses foundational concepts of culture and the impact of diversity on health inequities. Topics include cultural competency (e.g., race/ethnicity, culture, diversity and diverse populations) and disparities associated with culture. The second section of this course addresses effective communication and interviewing skills. Discussions address the effective use of interpreters, religion and spiritual beliefs, folk beliefs and practices that effect health care and treatment, and how diverse cultures respond to illness, complimentary medicine, traditional medical care and medications.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Explain the role of racism and other biases in oral health outcomes • Identify the influence of culture on health care and access to care • Describe how health disparities influence health, including oral health • Develop skills to recognize facets of cultural competency • Learn to engage patient's in meaningful and productive communication • Apply and practice awareness and appreciation for diversity and practice effective communication with patients
<p>DS1/FA – 7160 Research and Professional Development, Part I</p>	<p>This interdisciplinary course integrates research and professional development by introducing concepts in problem solving, research skills for use with the library, internet, and key reference works, methods of scholarly and journalistic writing with emphasis on critical thinking, persuasion and evaluation of data, life-long learning and professional growth skills that benefit from a research experience. The exposure to research allows students to embrace evidence-based practices, appreciate and understand the benefits of quality improvement, and participate in research focusing on the American dental student experience.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Analyze and critique primary and secondary evidence based upon a systematic and scientific method of analysis. 2. Evaluate research questions and study designs 3. Utilize and incorporate standard research methods and analysis appropriate for healthcare and dentistry-related research 4. Discuss and interpret research findings using both quantitative and qualitative assessment using standardized evidence analysis methodology.

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<p>DS1/SP – 7101S Human Structure and Function, Part II</p>	<p>Studies the disciplines of biochemistry, cell biology, general microanatomy, and physiology. Since form and function are interrelated, how the two are integrated as they are taken from the cell levels through tissues and then to organ systems will be taught. Exposure to cellular and histologic structures of tissues and organs and the exploration of the relationship between structure and function will be discussed, along with the integrated homeostatic relationship of body systems. Special consideration is given to those areas specifically related to dentistry and oral health.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the cellular, biochemical, physiological and anatomical concepts related to the musculoskeletal, nervous, endocrine, cardiac, pulmonary and renal systems. 2. Describe the relationship between cellular, tissue and organ structure and function. 3. Develop a foundational knowledge base in human physiology and microscopic anatomy relating to oral health.
<p>DS1/SP – 7108 Microbiological and Immunological Concepts, Part 2</p>	<p>This course introduces the fundamentals of virology, retrovirology, bacteriology and infectious diseases and the elements of the immune response to common pathogens. Clinical case studies will be used to illustrate infectious processes in oral and systemic diseases, with emphasis on infections of the oral cavity. The principles of infection control will be introduced.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain microbiological and immunological concepts governing the human host-parasite relationship. 2. Identify characteristics of common pathogens, and describe how these pathogens are identified and treated. 3. Evaluate and discuss the role of vaccinations, prophylaxis and basic anti-microbial therapy in relation to microbiological disease. 4. Discuss dental asepsis and aseptic technique. 5. Critically evaluate relevant scientific literature based on their understanding of microbiological and immunological concepts.
<p>DS1/SP – 7109S Head and Neck Anatomy and Neuroscience, Part II</p>	<p>Lecture content and clinical case-based learning are presented with corresponding laboratory sessions that illustrate the bones, muscles, nerves, and vasculature of the head and neck, with special emphasis on the embryology and structure-function relationship of each of these structures.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Learn the particular languages of gross anatomy and neuroanatomy. 2. Relate gross and neuroanatomical structures to their function and physiology. 3. Understand neuroanatomical bases for normal and abnormal function.

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		<ol style="list-style-type: none"> 4. Relate the neuroanatomy of the head and body to dental procedures in general and dental anesthetic procedures specifically.
<p>DS1/SP – 7110 Oral Microbiology and Oral Immunology</p>	<p>This course introduces the fundamentals of virology, retrovirology, bacteriology and infectious diseases and the elements of the immune response to common pathogens. Clinical case studies will be used to illustrate infectious processes in oral and systemic diseases, with emphasis on infections of the oral cavity. The principles of infection control will be introduced.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain microbiological and immunological concepts governing the human host-parasite relationship. 2. Identify characteristics of common pathogens, and describe how these pathogens are identified and treated. 3. Evaluate and discuss the role of vaccinations, prophylaxis and basic anti-microbial therapy in relation to microbiological disease. 4. Discuss dental asepsis and aseptic technique. 5. Critically evaluate relevant scientific literature based on their understanding of microbiological and immunological concepts.
<p>DS1/SP – 7121 Clinical Dentistry I: Intro to Operative Dentistry Lecture</p>	<p>Introduces the basic principles, philosophy, and techniques of Operative Dentistry (the restoration of single teeth). Preparation and restoration of teeth for direct restorations using dental amalgam and composite restorative materials will be taught. Taught concurrently with DEN 7121L (Lab component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the indications and contraindications for using amalgam and composite. 2. Describe the material properties of amalgam and composite. 3. Evaluate cavity preparations and restorations to determine clinical acceptability. 4. Describe the rationale for the use of adhesion in composite restorations. 5. Compare and contrast various matrix systems for restorations. 6. Explain the rationale for isolation during dental restorations, including the gold standard and alternate techniques. 7. Prepare and restore teeth with amalgam and composite. 8. Self-evaluate their work based on pre-established guidelines. 9. Explain the caries process, caries detection methods, and caries prevention strategies.
<p>DS1/SP – 7121L Clinical Dentistry I: Intro to Operative Dentistry Lab</p>	<p>Introduces the basic principles, philosophy, and techniques of Operative Dentistry (the restoration of single teeth). Preparation and restoration of teeth for Class I and II type</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the indications and contraindications for using amalgam and composite. 2. Describe the material properties of amalgam and composite.

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	restorations using dental amalgam and composite restorative materials will be taught. Taught concurrently with DEN 7121 (Lecture component).	<ol style="list-style-type: none"> 3. Evaluate cavity preparations and restorations to determine clinical acceptability. 4. Describe the rationale for the use of adhesion in composite restorations. 5. Compare and contrast various matrix systems for restorations. 6. Explain the rationale for isolation during dental restorations, including the gold standard and alternate techniques. 7. Prepare and restore teeth with amalgam and composite. 8. Self-evaluate their work based on pre-established guidelines. 9. Explain the caries process, caries detection methods, and caries prevention strategies.
DS1/SP – 7127 Introduction to Intraoral and Panoramic Radiography	Introduction to Intraoral and Panoramic Radiography is a lecture/laboratory course designed to introduce the first year dental student to: ionization radiation and its use in the health profession, the use of both digital and traditional film intraoral and panoramic radiographic techniques to make patient images, and the descriptive terms used in dental radiography.	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate radiographic technical proficiency when making a full mouth series of dental radiographs on an x-ray manikin. 2. Describe image evaluation criteria and quality assurance methods to assess image quality. 3. Describe the basic principles and theories of x-ray physics; X-ray machine design, production, controls – kVp, mA, time, interaction with matter 4. Explain the factors influencing image formation. 5. Demonstrate methods for processing images for film developing, digital display and archiving. 6. Describe the principles of panoramic radiography 7. Demonstrate an interpretation of the panoramic image with regards to maxillary and mandibular anatomy criteria of a good image, technique errors and image artifacts. 8. Recognize anatomy of the maxilla and mandible as visualized in dental and panoramic radiographs.
DS1/SP – 7136 Basics of Periodontal Instrumentation, Preventive, and Interventions Lecture	Presents clinical aspects of periodontal care and clinical skills needed to interact with patients in preventive periodontal care. Participants will learn to scale, root plane and polish the coronal surfaces of teeth with hand	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Evaluate oral hygiene and develop targeted oral hygiene measures. 2. Develop a prevention plan for the individual patient and the community.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

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	and ultrasonic instruments. Taught concurrently with DEN 7136L (Lab component).	<ol style="list-style-type: none"> 3. Discuss behavioral modification that improves periodontal health. 4. Determine a patient's periodontal disease status by using relevant indices and parameters. 5. Identify the macroscopic, microscopic and radiographic anatomy of the periodontium in health and disease. 6. Describe the pathogenesis of periodontal diseases. 7. Outline the clinical characteristics of periodontal diseases.
DS1/SP – 7136L Basics of Periodontal Instrumentation, Preventive, and Interventions Lab	The course initiates the development of clinical skill and patient care attitudes among first year students. Students will be trained in teaching the current methods of personal preventive care. They will learn the basics of a patient visit for periodontal treatment including ergonomics, patient interaction, disease documentation, coronal instrumentation with periodontal instruments and records management. Students practice these periodontal treatment skills in a clinical setting on each other during the course	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Develop a prevention plan for the individual patient and the community. 2. Analyze relevant periodontal disease data through clinical examination. 3. Identify the instruments for use in periodontal therapy. 4. Apply the principles of instrumentation in periodontal therapy. 5. Apply the concept of health advocacy.
DS1/SP – 7140S DSI General Dentistry Clinic	Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the first year of study.	<p>At the conclusion of this course the student will be able to:</p> <ol style="list-style-type: none"> 1. Perform and use plaque indices 2. Differentiate between pocket probing depth and attachment loss measurements. 3. Identify the parameters to use for probing, bleeding and attachment level measurements 4. Demonstrate proper use of instruments when utilizing an assistant. 5. Practice proper ergonomic principles. 6. Demonstrate proper use of ultrasonic instrumentation. 7. Demonstrate proper prophylaxis techniques.
DS1/SP – 7151	An introduction to public health systems and health care financing, with emphasis on oral	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the structure of the U.S. Healthcare System

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Healthcare Finance and Public Health	health care delivery to populations. Topics include: fluoridation, health care policy and reform, oral health delivery systems, and access to care.	<ol style="list-style-type: none"> 2. Discuss the role of dental public health in the delivery of dental care (oral health workforce) 3. Discuss the pertinent issues in the “Surgeon General’s Report on Oral Health in America” 4. Compare and contrast the dental components of Medicaid and the Children’s Health Insurance Program (CHIP) 5. Discuss the dental provisions of the Affordable Care Act (ACA) and implementation 6. Discuss patterns of disease and access to healthcare in the U.S 7. Describe the role of research in dental public health 8. Describe the planning, implementation and evaluation of community dental programs 9. Discuss the ADA Code of Ethics 10. Discuss ethical issues in community dental health 11. Discuss examples of interdisciplinary health promotion models to address oral health disparities
DS1/SP – 7156 Community Outreach: Pediatric Education	Presents the principles and practice of dental health education. This external rotation provides experience in a public health care setting where participants will be trained in patient health promotion and disease prevention. A dental education program on selected topics will be devised and implemented.	<p>Upon completion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Apply the components of a dental education program in the development of a lesson plan 2. Demonstrate and implement a pediatric health promotion and disease prevention program 3. Discuss the laws regarding child abuse/neglect 4. Discuss how to recognize child abuse/neglect and how to report it 5. Discuss evidence-based strategies for health promotion
DS1/SP – 7161 Research and Professional Development II	This interdisciplinary course integrates research and professional development by introducing concepts in problem-solving, research skills for use with the library, internet, and key reference works, methods of scholarly and journalistic writing with emphasis on critical thinking, persuasion and evaluation of data, life-long learning and professional growth skills that benefit from a	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Formulate a well-built clinical question using the PICO method. Conduct an effective clinical search using the PICO method. 2. Apply methods of scholarly and journalistic writing with emphasis on critical thinking, persuasion and evaluation of data. 3. Discuss biomedical, behavioral, and clinical science concepts in the context of oral health and disease. 4. Critically evaluate relevant primary scientific literature. 5. Demonstrate effective communication skills.

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	<p>research experience. The exposure to research allows students to embrace evidence-based practices, appreciate and understand the benefits of quality improvement, and participate in research focusing on the American dental patient experience.</p>	
<p>DS1/SU – 7118 Clinical Dentistry II: Operative Dentistry Lecture</p>	<p>Introduces basic principles, philosophy, and techniques of Operative Dentistry (the restoration of single teeth). Preparation and restoration of teeth for Class II, III, IV, V and VI using multiple restorative materials including amalgam, composite, IRM, and glass ionomer. Taught concurrently with DEN 7118L (Lab component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the indications and contraindications for using amalgam, resin-modified glass ionomer, glass ionomer, composites, calcium hydroxide and mineral trioxide aggregate 2. Describe the material properties of amalgam, resin-modified glass ionomer, composites, calcium hydroxide and mineral trioxide aggregate. 3. Explain the indications for liners and bases for pulpal protection in cavity preparations. 4. Evaluate cavity preparations and restorations to determine clinical acceptability. 5. Describe the rationale for the use of adhesion in composite restorations. 6. Discuss the instructions for use and material properties of various generations of dental adhesives. 7. Compare and contrast various matrix systems for anterior and posterior restorations. 8. Explain the rationale for isolation during dental restorations, including the gold standard and alternate techniques. 9. Describe the pros and cons of traditional and contemporary adjunct caries detection systems.
<p>DS1/SU – 7118L Clinical Dentistry II: Operative Dentistry Lab</p>	<p>Introduces basic principles, philosophy, and techniques of Operative Dentistry (the restoration of single teeth). Preparation and restoration of teeth for Class II, III, IV, V and VI using multiple restorative materials including amalgam, composite, IRM, and glass ionomer.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Prepare and restore selected teeth with various types of materials, including amalgam, composite, glass ionomer and IRM. 2. Evaluate cavity preparations and restorations to determine clinical acceptability. 3. Self-evaluate their work based on pre-established guidelines.

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<p>DS1/SU – 7122 Applied Fixed Restorative Dentistry Lecture</p>	<p>Taught concurrently with DEN 7118 (Lecture component).</p> <p>Presents basic principles of fixed prosthodontics. Topics include: preparations of a single posterior tooth for a full gold crown, understand the principles of retention and resistance, understand the laboratory procedures important to tooth preparation, including initial impressions, die models and articulation of the case in preparation to send to a dental laboratory. Taught concurrently with DEN 7122L (Lab simulation)</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Identify the indications, contraindications, risks, benefits, and alternatives for a single tooth extra coronal restoration. 2. Describe the factors taken into consideration when treatment planning for a single tooth extracoronar restoration 3. Describe the principles for tooth preparation for single tooth extracoronar restorations, including the variations for cast metal, ceramo-metal, and all ceramic crowns, including the use of CAD/CAM 4. Identify the properties and of metals and ceramics used in single tooth extracoronar restorations 5. Outline the process for impressions, temporization, communicating with the lab, and cementing a single tooth extracoronar restoration 6. Identify the indications, properties, and instructions for use of resin modified glass ionomer and resin cements for single tooth extracoronar restorations 7. Discuss the factors impacting color selection for ceramic restorations 8. Select appropriate armamentarium for various crown preparations
<p>DS1/SU – 7122L Applied Fixed Restorative Dentistry Lab</p>	<p>This course presents basic principles of fixed prosthodontics. Topics include: preparation of a single posterior tooth for a gold crown, porcelain fused to metal crown, all ceramic crowns; understand the principles of retention and resistance; understand the laboratory procedures important to tooth preparation: including initial impressions, final impressions, die models and articulation of the case in preparation to send to a dental</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Prepare teeth for the cast metal, ceramo-metal and all porcelain crowns in a timely manner to a clinically acceptable standard. 2. Demonstrate the ability to adequately fabricate temporary crown in a reasonable amount of time. 3. Demonstrate the ability to perform an adequate impression of the crown preparation. 4. Assess one's own performance, identify own limitations, and utilize purposeful reflection to see guidance and additional options for learning and improved performance.

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	laboratory. Taught concurrently with DEN 7122 Lecture.	
DS1/SU – 7126 Local Anesthesia and Nitrous Oxide Sedation	The goal of this course to provide the clinician with the knowledge, competence and attitude to safely administer local anesthesia for the elimination of pain and anxiety while providing dental care. The course includes lectures and demonstrations. It will describe pharmacological agents, the process of physical and emotional evaluation of patients, the anatomy and neurophysiology of pain control and the management of related medical emergencies.	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Assess the medical and psychosocial status of a patient in order to determine if it is safe to proceed with dental care. • Discuss the role of local anesthetic in achieving pain and anxiety control for the dental patient. • Determine if any modifications are necessary to local anesthetic technique and delivery based on the patient’s medical, psychosocial, or dental history, including modifications for the anxious patient. • Compare and contrast the properties of anesthetic solutions. • Discuss the distribution and anatomical landmarks of local anesthetic injections, including the area anesthetized by each injection. • Explain the pharmacology and physiological impact of local anesthetics and vasoconstrictors. • Identify the appropriate armamentarium for various local anesthetic injections in dental practice. • Discuss the identification and management of local anesthetic complications and medical emergencies.
DS1/SU – 7129 Diagnosis and Treatment Planning II	Provides expanded knowledge and experience in diagnosis and treatment planning within dental specialties. Treatment outcomes will be used to guide evidence-based treatment planning that may include alternative treatment plans. Fundamental knowledge to formulate a treatment plan using evidence-based practice based on patient assessment including the identification of emergency and urgent treatment needs will be taught.	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Create treatment plans with appropriate phasing and sequencing including when to refer and consult. 2. Discuss the components and frequency of a comprehensive and periodic oral evaluation. 3. Determine the need for radiographic and clinical diagnostic tests. 4. Interpret patient assessment and diagnostic data to formulate diagnosis and prognosis. 5. Describe the risks, benefits, and alternative of treatment options.
DS1/SU – 7130 Applied Dental Materials	This course provides students with foundational knowledge of the nature and	<p>At the end of this course the student will be able to:</p> <ol style="list-style-type: none"> 1. Classify different categories of materials.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

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	<p>behavior of materials used in dentistry and their application in dental practice. Topics include: dental materials specifications, evaluation programs, agencies concerned with materials and periodicals that evaluate dental materials; Structure, properties and surface activity of materials; Principles and theories of metals, waxes, impressions, gypsum, polymers and ceramic materials; and abrasion, finishing and polishing of dental materials, and analysis of sensitivity and failures.</p>	<ol style="list-style-type: none"> 2. Describe the basic physical, chemical and mechanical properties of materials. 3. Identify the strengthening mechanisms of all materials and their manipulation. 4. Recognize the structure and property relationship of different classes of materials. 5. Differentiate between different types of materials according to their application. 6. Describe the factors that affect bonding and the criteria for successful adhesion. 7. Evaluate failure of different materials. 8. Develop the clinical reasoning skills, necessary for making the correct material choice for the required clinical situation 9. Communicate effectively in groups and find organized solutions to the given problems.
<p>DS1/SU – 7139 Clinical Occlusion Lecture</p>	<p>Presents the principles and concepts of occlusion and articulation. Topics include occlusal aspects of restorative and replacement dentistry. A maxillary stabilization bite plane splint will be designed and fabricated. Taught concurrently with DEN 7139L (Lab Component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe and label the anatomy of the TMJ and muscles of mastication. 2. Interpret and analyze the normal and abnormal physiology of mandibular movements. 3. Recognize the static concepts of ideal occlusion. 4. Identify the paths of mandibular movement during function. 5. Discuss the differences in types of articulators and describe how to set them. 6. Describe the steps for mounting diagnostic casts on an articulator. 7. Describe the characteristics of a correctly designed stabilization appliance. 8. Discuss the indications and contraindications for occlusal adjustments. 9. Discuss the process for identifying the areas on natural and restored dentition to be included in selective adjustment.
<p>DS1/SU – 7139L Clinical Occlusion Lab</p>	<p>Presents the principles and concepts of occlusion and articulation. Topics include:</p>	<p>At the conclusion of this course, the student will be able to:</p>

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
	occlusal aspects of restorative and replacement dentistry. A Maxillary stabilization bite plane splint will be designed, fabricated and delivered. Taught concurrently with DEN 7139 (Lecture Component).	<ol style="list-style-type: none"> 1. Reproduce, in wax, functional occlusion to canine guidance, anterior guidance and group function. 2. Perform an occlusal adjustment on casts. 3. Design and wax a stabilization splint. 4. Mount preclinical and clinical diagnostic casts onto an accurately zeroed semi-adjustable articulator and evaluate the results of the mounting.
DS1/SU – 7140M DSI General Dentistry Clinic	Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the first year of study.	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Perform a preliminary evaluation of a patient’s overall health as related to safe delivery of elective dental care. 2. Accurately take and interpret vital signs and blood glucose levels. 3. Perform an extraoral and intraoral comprehensive oral evaluation. 4. Select appropriate isolation method for various clinical cases. 5. Demonstrate the proper use of rubber dam and other isolation techniques. 6. Predictably and repeatedly take occlusal records for mounting cases in centric relation using a facebow. 7. Explain the rationale for using centric relation when restoring a patient’s occlusion. 8. Administer maxillary and mandibular blocks and local infiltrations safely and effectively. 9. Comply with universal precautions and clinic policies related to health and safety.
DS1/SU – 7141 Panoramic Principles and Advanced Radiological Anatomy	Provides the principles and techniques of panoramic radiology to Interpret panoramic radiographs. Topics include the biological effects of radiation, and methods and concepts of radiation protection for the patient and occupational use.	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate radiographic technical proficiency when making a full mouth series of dental radiographs on a x-ray manikin. 2. Describe image evaluation criteria and quality assurance methods to assess image quality. 3. Describe the use of x-ray radiation in a safe and prudent manner so as to minimize both patients and operator exposure. 4. Explain the principles of radiographic interpretation as applied to normal and disease processes.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

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		<ol style="list-style-type: none"> 5. Describe radiation safety procedures, the ALARA concept, and State regulations pertaining to the use of ionization radiation in the dental office. 6. Classify bone lesions based upon radiographic appearance and corresponding histology plus provide examples. 7. Describe the principles of occlusal and lateral jaw/skull radiographic techniques and interpretation. 8. Describe the use of the localization techniques “Buccal object/SLOB” rules for radiographic interpretation.
<p>DS1/SU – 7162 Biochemical Basis for Clinical Nutrition</p>	<p>Sound nutritional principles will be discussed, as well as: evaluation of nutritional status of a patient; patient nutrition education aimed at preventing / treating oral diseases; role of nutrition in the etiology and progression of oral disease; and nutritional considerations in managing medically-compromised patients.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Understand the basic principles and components of human nutrition 2. Discriminate between sound nutritional principles and misleading information in popular media; 3. Evaluate the nutritional status of a dental patient; 4. Demonstrate a practical approach to patient nutrition education aimed at preventing / treating oral diseases; 5. Discuss the integral role of nutrition in the etiology and progression of oral disease; 6. Discuss relevant nutritional considerations in managing medically-compromised patients. 7. Recognize unique nutrition and dietary requirements
<p>DS2/FA – 7204 Pathological Concepts</p>	<p>This course incorporates a series of seminars designed to illustrate, at a greater level of complexity, the relationship between biosciences and clinical sciences in the context of oral health care. A greater understanding of the complex relationship between the oro-facial complex and the rest of the body will be gained.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the various structural and functional changes that occur in cells, tissues, and organs as a result of pathologic processes. 2. Describe the molecular, microbiologic, and immunologic techniques that the pathologist uses to analyze these changes. 3. Recognize and understand the pathogenesis of developmental, inflammatory, neoplastic, systemic, and degenerative diseases. 4. Explain the components and relationship of etiologic and epidemiologic factors related to pathologic principles.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

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<p>DS2/FA – 7208 Oral Cancer – Prevention, Cause, and Cure</p>	<p>This course presents introductory information concerning the disease processes associated with the development of oral cancer. Concepts presented in this course acquaint the dental student with the epidemiology and natural history of cancer, histologic types, and surgical, radiologic and chemotherapeutic treatment modalities employed in the management of head and neck cancer. Students are prepared to recognize the clinical presentation, initiate the proper diagnostic workup and participate in the ongoing care of the cancer patient as a member of the multidisciplinary team.</p>	<p>5. Demonstrate the knowledge, judgement, and skill required to appropriately recognize clinical pathologic lesions.</p> <p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the various structural and functional changes that occur in oral cells, tissues, and organs as a result of oncogenic and carcinogenic processes. 2. Describe the molecular, laboratory and diagnostic techniques used to analyze and assess these changes. 3. Recognize and understand the pathogenesis of oral cancers and related diseases. 4. Explain the components and relationship of etiologic and epidemiologic factors related to oncogenic and carcinogenic principles. 5. Demonstrate the knowledge, judgment, and skill required to appropriately recognize clinical pathologic lesions.
<p>DS2/FA – 7233F Complete Removable Dental Prosthesis Lecture</p>	<p>Presents principles of diagnosis and planning treatment for partially and fully edentulous patients. Procedures and techniques for replacement of teeth for partially and fully edentulous patients in the preclinical laboratory will be experienced. Taught concurrently with DEN 7233FL (Lab Component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the anatomic landmarks and their role in successful complete denture therapy, including the establishment of a posterior palatal seal. 2. Critically evaluate data from a selected patient's medical history, clinical findings, radiological exam, and mounted study casts as related to complete removable prostheses treatment planning. 3. Assess and describe the steps involved in making the final impression 4. Describe the use of occlusion rims and record bases for determining vertical dimension of occlusion, phonetics, midline, smile, facial profiles and teeth selection. 5. Formulate evidence-based treatment plans and prostheses designs, including risks, benefits, and

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<p>alternatives for patients requiring complete removable prostheses.</p> <ol style="list-style-type: none"> 6. Identify indications, contraindications, risks, and benefits of overdentures and immediate dentures. 7. Describe the steps of complete removable prostheses fabrication, including impression techniques, lab steps, clinical steps, and troubleshooting problems. 8. Explain the rationale and placement of a posterior palatal seal 9. Understand the healing process for immediate dentures and explain the criteria and steps necessary for soft and hard relines. 10. Describe the correct use and care of semi-adjustable articulators, including the transfer of patient data, interocclusal records, and facebow. 11. Plan an individualized arrangement of artificial anterior and posterior teeth for a complete removable prosthesis. 12. Discuss the components necessary for effective communication with the dental laboratory with regard to complete removable prostheses.
<p>DS2/FA – 7233FL Complete Removable Dental Prostheses Lab</p>	<p>Presents principles of diagnosis and planning treatment for partially and fully edentulous patients. Procedures and techniques for replacement of teeth for partially and fully edentulous patients in the preclinical laboratory will be experienced. Taught concurrently with DEN 7233F (Lecture Component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Make preliminary impressions for complete dentures. 2. Properly prepare a custom tray for denture impressions. 3. Make final maxillary and mandibular denture impressions. 4. Fabricate an occlusal rim for obtaining denture records. 5. Demonstrate the correct use and care of semi-adjustable articulators. 6. Make inter-occlusal records for edentulous patients. 7. Demonstrate the transfer of patient data to a semi-adjustable articulator. 8. Mount maxillary casts using a facebow. 9. Mount mandibular casts using a jaw relation record.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 10. Set and arrange anterior and posterior denture teeth for an acceptable denture set up. 11. Draw and scribe the posterior palatal seal. 12. Complete dental lab work authorization with regard to complete removable prostheses.
<p>DS2/FA – 7236 Introduction to Periodontal Diagnosis and Initial Therapy</p>	<p>Provides information on the clinical management of infectious periodontal disease in preparation for treating patients clinically. Topics include: examine, diagnose, and predict the course of inflammatory periodontal disease. Treatment planning methods will become familiar through case-based learning.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the current classification of periodontal diseases. 2. Describe the local and systemic factors predisposing to periodontal diseases. 3. Describe the parameters for periodontal diagnosis. 4. Describe the clinical signs and symptoms of periodontal diseases 5. Compare between health and diseased gingival and periodontal tissues. 6. Identify the suitable periodontal treatment plan and possible alternative plans. 7. Identify preventive measures for periodontal disease prevention for the individual patient and the community. 8. Appraise the concepts and rational supportive/maintenance periodontal therapy.
<p>DS2/FA – 7241F Simulated Comprehensive Care Lecture</p>	<p>Integrates both didactic information relative to the use of hand pieces in patient care, operative dentistry, and fixed prosthodontics, coupled with preclinical experiences in comprehensive care for a simulated patient. Topics include: treatment planning, more complex restorations, and best practices in documenting procedures. The emphasis will be on patient-centered care, supported by evidence-based dentistry. Taught concurrently with DEN 7241FL (Lab component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Interpret patient assessment and diagnostic data to formulate differential diagnoses. 2. Establish principals to present information to faculty in a systematic, organized fashion. 3. Utilize the electronic health record and understand its importance of clear, accurate documentation for compliance of state and government regulations. 4. Complete chart notes, code entry, and all forms necessary for patient encounters. 5. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient’s goals through patient centered scenarios.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 6. Apply technical skills within the scope of treatment. 7. Discuss indications, risks, benefits, and alternatives of treatment options in group discussion. 8. Discuss the importance of communicating to patients behavior modifications that can impact oral health. 9. Assess the quality and outcome of care delivered. 10. Work effectively as well as communicate professionally with members of the course, which may include peers, faculty, and staff. 11. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 12. Formulate a comprehensive view of patient care in the clinical setting.
<p>DS2/FA – 7241FL Simulated Comprehensive Care Lab</p>	<p>This lab component to DEN 7241F provides hands-on experience with the simulated patient. Training devices (e.g., CAD/CAM, etc.) will be used to enhance the learning experience. Emphasis will be placed on time management and quality of care necessary for patient-centered care. Exposure to fabrication of in-office appliances (e.g., bleaching trays, mouth guards, provisional and restorative matrices, diagnostic cast, etc.) will also be experienced. Taught concurrently with DEN 7241F (Lecture component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Interpret patient assessment and diagnostic data to formulate differential diagnoses. 2. Establish principals to present information to faculty in a systematic, organized fashion. 3. Utilize the electronic health record and understand its importance of clear, accurate documentation for compliance of state and government regulations. 4. Complete chart notes, code entry, and all forms necessary for patient encounters. 5. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient’s goals through patient centered scenarios. 6. Apply technical skills within the scope of treatment. 7. Discuss indications, risks, benefits, and alternatives of treatment options in group discussion. 8. Discuss the importance of communicating to patients behavior modifications that can impact oral health.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 9. Assess the quality and outcome of care delivered. 10. Work effectively as well as communicate professionally with members of the course, which may include peers, faculty, and staff. 11. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 12. Formulate a comprehensive view of patient care in the clinical setting.
<p>DS2/FA – 7244F DSII General Clinic</p>	<p>Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the second year of study.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Conduct a patient interview, including building rapport and obtaining relevant information from the dental and medical histories to safely move forward with urgent and non-urgent dental care. 2. Perform clinical evaluation of patients with a moderate level of dental complexity. 3. Develop diagnoses and treatment plans consistent with subjective and objective data gathered for patients with a moderate level of dental complexity. 4. Adequately manage patients' pain and anxiety. 5. Execute treatment including dental prophylaxis, scaling and root planing, and simple intracoronal restorations. 6. Complete medicolegal documentation including entry of CDT codes, progress notes, informed consent forms, contact notes, and electronic health record forms in a timely manner. 7. Demonstrate the ability to solicit and incorporate feedback into one's development toward a novice clinician. 8. Engage in various models of care ranging from traditional comprehensive to private practice group model to specialty and limited scope care.
<p>DS2/FA – 7251 Specialty Practice</p>	<p>Provides key topics for success in the School of Dental Medicine clinics. This includes continuous quality improvement and quality</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the rationale for assessing and improving quality in dentistry

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

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	assurance, interpersonal skills, insurance and finance, policies and protocols, the electronic health record and medicolegal documentation, and provider selfcare	<ol style="list-style-type: none"> 2. Explain UNLV SDM’s procedure for chart audits, note writing, and assessing quality and outcomes of care. 3. Discuss the policies and procedures related to providing care in the UNLV SDM student clinics 4. Explain the most common mistakes made at UNLV SDM regarding infection control 5. Communicate effectively with laboratory technicians 6. Describe strategies for working effectively with dental auxiliary, with an emphasis on 4-handed dentistry 7. Explain the importance of interpersonal skills, emotional intelligence, and provider wellbeing and self-care to be an effective health care provider.
DS2/FA – 7252 Community Outreach: Geriatric Population	Participation in preventive dentistry techniques, oral health screenings, and comprehensive oral examinations for the geriatric population	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the signs of normal aging and those associated with chronic systemic disease. 2. Define methods to assess home and health care setting safety for older adults. 3. Discuss the prevalence of elder abuse in Nevada’s Residential Facilities 4. Describe the process to report elder abuse 5. Describe the importance of oral health as well as disease prevention strategies. 6. Develop and execute a community-based oral health promotion and disease prevention program for older adults. 7. Assess the treatment needs of older adults and describe appropriate modifications when indicated. 8. Review literature and develop community based research question
DS2/FA – 7253 Dental Research and Analysis Methodology	This Interdisciplinary course incorporates concepts in problem solving, research skills for use with the library, Internet, and key reference works, methods of scholarly and journalistic writing with emphasis on critical thinking, persuasion and evaluation of data,	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Analyze and critique primary and secondary evidence based upon a systematic and scientific method of analysis 2. Formulate and evaluate research questions and study designs 3. Utilize and incorporate standard research methods and analysis appropriate for healthcare and dentistry-related research

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

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	<p>life-long learning and professional growth skills that benefit from a research experience. The exposure to research allows students to embrace evidence-based practices, appreciate and understand the benefits of quality improvement, and participate in research as practicing dentists.</p>	<p>4. Discuss and interpret research findings using both quantitative and qualitative assessment using standardized evidence analysis methodology.</p>
<p>DS2/SP – 7201 Oral and Systemic Manifestations of Disease</p>	<p>This course relates and applies the general pathologic principles and processes of inflammatory, developmental, degenerative, neoplastic, and systemic diseases to specific organ systems of the body. Emphasis is placed on correlation of these organ system related disease processes to their oral manifestations and their implications in practice of dentistry.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Build a foundational knowledge of the etiology, epidemiology, pathophysiology, and histopathology of pathologic processes as they relate to examination, evaluation, treatment, and prognosis of the patient. 2. Describe the various structural and functional changes that occur in cells, tissues, and organs as a result of pathologic processes. 3. Describe the molecular, microbiologic, and immunologic techniques that the pathologist uses to analyze these changes. 4. Recognize and understand the pathogenesis of developmental, inflammatory, neoplastic, systemic, and degenerative diseases. 5. Explain the components and relationship of etiologic and epidemiologic factors related to pathologic principles. 6. Demonstrate the knowledge, judgment, and skill required to appropriately recognize clinical pathologic lesions. 7. Critically evaluate relevant scientific literature based on their understanding of pathologic concepts.
<p>DS2/SP – 7203 Pharmacological Concepts</p>	<p>Presents an introduction to the principles of pharmacology. Case-based learning will illustrate the fundamentals of pharmacology, pharmacokinetics, drug effects, and therapeutics. Topics will include the mechanism of action of the major drug classes.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Apply the principles of pharmacokinetics to drug therapy including routes of drug administration and distribution, dose-response relationships, drug metabolism, adverse drug reactions, clearance, and excretion. 2. Specify the pharmacodynamics of commonly prescribed drugs, including both therapeutic actions as well as associated adverse effects.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

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		<ol style="list-style-type: none"> 3. Distinguish the major classes of drugs used in dentistry and those drug classes most commonly prescribed in the US, and how these drugs specifically impact dental care. 4. Describe conditions for the management of pain in dentistry including appropriate use of acetaminophen, NSAIDs, opioid drugs or combinations. 5. Discuss issues related to the selection of current and accepted pharmacotherapy for the medical management of infections in the oral health care setting. 6. Critically analyze, through active scientific inquiry, drugs commonly prescribed in the practice of dentistry and drugs commonly taken by dental patients. Key aspects include the drug indications as well as adverse effects and precautions required.
<p>DS2/SP – 7205 Clinically Oriented Anatomy</p>	<p>Presents components of the human gross anatomy of the thorax, abdomen, and upper extremity in the context of systemic pathology which is offered concurrently. Casebased learning will be incorporated to illustrate the integration of the normal and pathological condition.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss and integrate regional gross anatomy of the trunk and upper extremities with common pathological conditions associated with the specific region. 2. Correlate the presented gross and neuroanatomical structures to their function and physiology.
<p>DS2/SP – 7220 Preclinical Endodontics Lecture</p>	<p>An introduction to the specialty of endodontics. A didactic course which provides an overview of the basics of endodontic therapy. It concentrates on the evidence based practice of endodontics, covering the art and science of endodontics. Various accepted clinical techniques are taught and integrated with biological concepts and research in the area; both classic and current research is referenced.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe diagnostic procedures and rationale for endodontic therapy. 2. Use understanding of pulpal and periradicular injuries and diseases for diagnosis and treatment planning. 3. Diagnose pulpal and periapical pathology of pulpal origin. 4. Demonstrate knowledge of internal and external coronal and radicular morphology of the adult dentition and anatomical variations. 5. Identify and utilize appropriate armamentarium for delivery of endodontic therapy. Demonstrate an understanding and rationale for the procedural steps required to treat pulpal and periapical disease.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 6. Demonstrate an understanding of clinical procedures required to prepare for delivery of endodontic therapy. 7. Provide a rationale and demonstrate an understanding of the procedures required to provide therapy in endodontic emergencies. 8. Demonstrate skill in completing access preparations, debridement of root canal systems, cleansing and shaping procedures, obturation procedures, and interim and definitive restorative procedures. 9. Interpret endodontic radiographs.
<p>DS2/SP – 7220L Preclinical Endodontics Lab</p>	<p>The laboratory portion of the introduction to endodontics course provides hands-on experience in the practice of endodontics. Both extracted and plastic teeth are used. Students are required to identify and properly use endodontic instruments. Emphasis is placed on being able to properly perform diagnostic tests, accomplish access preparations, use both hand and rotary instrumentation techniques and obturate teeth. Radiographs of completed work and selfevaluation of results is also required.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Identify and utilize appropriate armamentarium for delivery of endodontic therapy. 2. Demonstrate an understanding and rationale for the procedural steps required to treat pulpal and periapical disease. 3. Demonstrate an understanding of clinical procedures required to prepare for delivery of endodontic therapy. 4. Provide a rationale and demonstrate an understanding of the procedures required to provide therapy in endodontic emergencies. 5. Demonstrate skill in completing access preparations, debridement of root canal systems, cleansing and shaping procedures, obturation procedures, and interim and definitive restorative procedures. 6. Interpret endodontic radiographs.
<p>DS2/SP – 7227 Oral and Maxillofacial Surgery</p> <p>**</p>	<p>Presents the principles of diagnosis and planning oral surgical techniques. Topics include: uncomplicated exodontia, treatment of infection and exodontias, and traumatic injuries.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate knowledge of principles of infection control in OMS. 2. Understand the basic instrumentation for exodontias 3. Understand the basic techniques for uncomplicated exodontias 4. Understand the basic pharmacology of local anesthesia for exodontias 5. Understand the important principles for obtaining profound anesthesia for exodontias

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 6. Understand the principles of successful treatment for complicated/complex exodontia 7. Understand the indications and contraindications for exodontia 8. Understand how to recognize and treat common emergencies in the OMS clinic
<p>DS2/SP – 7233S Introduction to Partial Removable Dental Prostheses Lecture</p>	<p>This course is a multidisciplinary examination of partial RDPs as a treatment modality for the partially edentulous patient. It will include case selection, treatment planning, surveying, designing, delivering and follow up care for the partially edentulous patient.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. List and describe the different Kennedy classifications to include modifications for the partially edentulous arch. 2. List and describe the different components of the partial removable prostheses. 3. Describe the biomechanics associated with different partial removable dental prostheses. 4. Describe the anatomic landmarks and their role in successful partial denture therapy. 5. List the indications for a partial removable dental prosthesis. 6. Critically evaluate data from a selected patient's medical history, clinical findings, radiological exam, and mounted study casts as related to partial removable prostheses treatment planning. 7. Explain the evidence with regard to healing time prior to fabrication of partial removable prostheses. 8. Formulate evidence-based treatment plans and prostheses designs, including risks, benefits, and alternatives for patients requiring partial removable prostheses. 9. Explain the rationale for use of a surveyor. 10. Identify indications, contraindications, risks, and benefits of the different materials used in the fabrication of partial removable dental prostheses. 11. Describe the steps of partial removable prostheses fabrication, including impression techniques, lab steps, clinical steps, and troubleshooting problems. 12. Explain the rationale and steps for making an altered or corrected cast.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 13. Describe the correct use and care of semi-adjustable articulators, including the transfer of patient data, interocclusal records, and facebow. 14. Explain the indications for an interim and flexible partial removable dental prostheses. 15. Discuss the items necessary for effective communication with the dental laboratory to include laboratory work authorizations with regard to partial removable dental prostheses.
<p>DS2/SP – 7233SL Introduction to Partial Removable Dental Prostheses Lab</p>	<p>A multidisciplinary examination of partial denture lab protocols as a treatment modality for the partially edentulous patient. It will include impression making, pouring of casts, surveying casts, designing cases, preparing teeth with rest preparations, guide planes and hollow grinding, mounting casts on an articulator, fabricating custom trays and "simulated frameworks," setting teeth, festooning partial prostheses and planning treatment cases for partially edentulous patients.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Make preliminary impressions for partial dentures. 2. Properly prepare a custom tray for partial denture impressions. 3. Properly pour models using a two-pour technique. 4. Survey partial denture cases using a Ney surveyor. 5. Demonstrate skills in treatment planning partial denture cases. 6. Design cases using principles learned in the lecture and the laboratory portion of the course using multiple colored pencils to differentiate components of the partial prosthesis to include cast or flexible frameworks, cast and wrought wire clasping, undercut areas and acrylic placement. 7. Prepare teeth with guide planes, rest and hollow-grind preparations. 8. Demonstrate the correct use and care of semi-adjustable articulators. 9. Mount models on the articulator using accurate two-pour mixes. 10. Fabricate a "simulated" partial denture framework. 11. Set denture teeth against an opposing maxillary cast. 12. Festoon and complete a partial denture prosthetic case. 13. Accurately complete the UNLV Partial Design Form and lab work authorization. 14. Set anterior teeth on maxillary cast to fabricate a transitional partial prosthesis
<p>DS2/SP – 7241S</p>	<p>Integrates both didactic information relative to the use of hand pieces in patient care,</p>	<p>At the conclusion of this course, the student will be able to:</p>

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
<p>Simulated Comprehensive Care Lecture</p>	<p>operative dentistry, and fixed prosthodontics, coupled with preclinical experiences in comprehensive care for a simulated patient. Topics include: treatment planning, more complex restorations, and best practices in documenting procedures. The emphasis will be on patient-centered care, supported by evidencebased dentistry. Taught concurrently with DEN 7241FL (Lab component).</p>	<ol style="list-style-type: none"> 1. Interpret patient assessment and diagnostic data to formulate differential diagnoses. 2. Establish principals to present information to faculty in a systematic, organized fashion. 3. Utilize the electronic health record and understand its importance of clear, accurate documentation for compliance of state and government regulations. 4. Complete chart notes, code entry, and all forms necessary for patient encounters. 5. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient’s goals through patient centered scenarios. 6. Apply technical skills within the scope of treatment. 7. Discuss indications, risks, benefits, and alternatives of treatment options in group discussion. 8. Discuss the importance of communicating to patients behavior modifications that can impact oral health. 9. Assess the quality and outcome of care delivered. 10. Work effectively as well as communicate professionally with members of the course, which may include peers, faculty, and staff. 11. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 12. Formulate a comprehensive view of patient care in the clinical setting.
<p>DS2/SP – 7241SL Simulated Comprehensive Care Lab</p>	<p>This lab component to DEN 7241S provides hands-on experience with the simulated patient. Training devices (e.g., CAD/CAM, etc.) will be used to enhance the learning experience. Emphasis will be placed on time management and quality of care necessary for patient-centered care. Exposure to fabrication</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Interpret patient assessment and diagnostic data to formulate differential diagnoses. 2. Establish principals to present information to faculty in a systematic, organized fashion.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
	<p>of inoffice appliances (e.g., bleaching trays, mouth guards, provisional and restorative matrices, diagnostic cast, etc.) will also be experienced. Taught concurrently with DEN 7241S (Lecture component)</p>	<ol style="list-style-type: none"> 3. Utilize the electronic health record and understand its importance of clear, accurate documentation for compliance of state and government regulations. 4. Complete chart notes, code entry, and all forms necessary for patient encounters. 5. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient’s goals through patient centered scenarios. 6. Apply technical skills within the scope of treatment. 7. Discuss indications, risks, benefits, and alternatives of treatment options in group discussion. 8. Discuss the importance of communicating to patients behavior modifications that can impact oral health. 9. Assess the quality and outcome of care delivered. 10. Work effectively as well as communicate professionally with members of the course, which may include peers, faculty, and staff. 11. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 12. Formulate a comprehensive view of patient care in the clinical setting.
<p>DS2/SP – 7243 Advanced Technique in Dental Radiology</p>	<p>Advanced techniques in dental radiology is a lecture and workshop course designed to teach second year dental students the principles that apply to extra oral head and neck imaging techniques such as, conventional skull radiography, tomography, medical CT, MRI, and dental cone beam tomography (CBCT). The workshop follow allows students to directly work with 3-D imaging software to develop 3-D diagnostic skills and to develop treatment plans based on 3-D imaging.</p>	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate radiographic proficiency when identifying various skull imaging techniques. 2. Describe the various imaging techniques of the principal use of each. 3. Describe the advantages of using 3-D CBCT imaging in dentistry. 4. Demonstrate the use of CBCT imaging to facilitate radiographic interpretation and treatment planning. 5. Demonstrate the ability to treatment plan a dental implant procedure using CBCT software.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
<p>DS2/SP – 7244S DSII General Clinic</p>	<p>Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the second year of study</p>	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Conduct a patient interview, including building rapport and obtaining relevant information from the dental and medical histories to safely move forward with urgent and non-urgent dental care. 2. Perform clinical evaluation of patients with a moderate level of dental complexity. 3. Develop diagnoses and treatment plans consistent with subjective and objective data gathered for patients with a moderate level of dental complexity. 4. Adequately manage patients' pain and anxiety. 5. Execute treatment including dental prophylaxis, scaling and root planing, and simple intracoronal restorations. 6. Complete medicolegal documentation including entry of CDT codes, progress notes, informed consent forms, contact notes, and electronic health record forms in a timely manner. 7. Demonstrate the ability to solicit and incorporate feedback into one's development toward a novice clinician. 8. Engage in various models of care ranging from traditional comprehensive to private practice group model to specialty and limited scope care.
<p>DS2/SP – 7254 Contemporary Issues in Behavioral Science</p>	<p>The course outlines prevention strategies for addressing tobacco use and cessation. Motivational interviewing and nutritional risk assessment will be discussed in alignment with the reduction in caries risk. Case studies demonstrating effective communication strategies for patient treatment will be reviewed. Implementation strategies to integrate SBIRT (screening, brief intervention and referral to treatment) protocols in a dental setting will be discussed.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> a. Assess problem-solving and critical thinking skills; b. Recognize skills to reduce tobacco use in patients; c. Assess communication skills (verbal/non-verbal forms of communication); d. Define and discuss pertinent issues relative to patient care delivery, communication, and practice management; e. Describe how to complete a caries risk assessment in a dental setting as well as how to develop a caries prevention plan f. Describe how to complete a nutritional analysis in a dental setting as well as how to develop a nutrition education plan for the patient

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ul style="list-style-type: none"> g. Describe how to develop an outcomes assessment plan for the patient h. Compare strategies that are effective in the prevention of oral disease; i. Compare strategies to motivate healthy patient behaviors; j. Apply practical approaches for managing a pediatric patient k. Identify implementation strategies to integrate SBIRT (screening, brief intervention and referral to treatment) protocols in a dental setting
<p>DS2/SU – 7226 Introduction to Dental Implants Lecture</p>	<p>Presents basic principles and techniques of replacement of missing teeth with dental implants. Taught concurrently with DEN 7226L (Lab Component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> 1. Discuss the indications, risks, benefits, alternatives, and prognosis of implant therapy for replacing single or multiple teeth and when referral is warranted. 2. Develop a restoratively-driven treatment plan for replacing single or multiple units with dental implants. 3. Demonstrate the procedure for making impressions for implant restorations. 4. Classify and identify the components used in the restoration with dental implants. 5. Evaluate the immediate and delayed restorative and surgical complications related to dental implant therapy. 6. Discuss the long-term outcomes maintenance of dental implants.
<p>DS2/SU – 7226L Introduction to Dental Implants Lab</p>	<p>Presents basic principles and techniques of replacement of missing teeth with dental implants. Taught concurrently with DEN 7226 (Lecture Component).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> 1. Formulate a restoratively-driven treatment plan for replacing single tooth with endosseous dental implants. 2. Construct a surgical guide for replacing single tooth. 3. Construct open- and closed-impression tray. 4. Identify appropriate components for open- and closed-tray impressions for implant restoration. 5. Construct a single unit implant provisional restoration. 6. Perform a simulated implant surgical drilling sequence and implant placement.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
<p>DS2/SU – 7228 Pharmacotherapeutics I: Prescribing Medication</p>	<p>Pharmacotherapeutics is incorporated into the curriculum after completion of the foundation of biomedical and clinical science instructional material and at the beginning of significant interaction with patients to achieve maximum integration between the study of pharmacology in the treatment of disease, the study of patient assessment and care, and the diagnostic and therapeutic processes in the oral health care setting. Broadly organized into two sections: 1) drugs dentists use or prescribe in the practice of dentistry, and 2) drugs used in medicine for the treatment and pharmacological considerations of dental patients receiving concurrent dental and medical care.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the laws governing prescribing practices for dentists in the state of Nevada. 2. Explain the indications, contraindications, mechanism of action, route of administration, instructions for use, and adverse effects for the most prescribed and administered medications in adult and pediatric dentistry. 3. Write prescriptions for the most used medications in dentistry for adults and children. 4. Describe safe and evidence-based analgesics prescribing practices. 5. Demonstrate judicious and evidence-based use of antibiotics in dentistry. 6. Explain different tobacco products and characteristics of each of them.
<p>DS2/SU – 7230 Clinical Dentistry III: Orthodontics Lecture</p>	<p>Presents opportunities to enhance skills and practice in contemporary orthodontics. Experience in completing lab projects is included in the learning experience. Taught concurrently with DEN 7230L (Lab component)</p>	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Identify the embryological and developmental anomalies causing malocclusions, including the etiology of those anomalies and malocclusions. 2. Assess the impact of orthodontics forces and medications of the bone biology and remodeling. 3. Identify when and why adjunct orthodontic appliances would be indicated for comprehensive or limited orthodontic treatments. 4. Classify orthodontic malocclusions and determine basic treatment needs. 5. Describe and interpret the data used for orthodontic diagnosis including skeletal, dental and soft tissue. 6. Analyze mixed dentition, abnormal eruption sequences and its consequence. 7. Compare and contrast conventional and contemporary treatment modalities, including components, advantages and disadvantages of each type of therapy.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 8. Describe orthodontic case complexity and determine the role of a general dentist in patients’ orthodontic intervention and treatment. 9. Explain appropriate treatment sequence during comprehensive dental care and treatment planning. 10. Identify the role of the dentist in dental sleep medicine. 11. Examine and screen patients for obstructive sleep apnea and other sleep disorders.
<p>DS2/SU – 7230L Clinical Dentistry III: Orthodontics Lab</p>	<p>Presents opportunities to enhance skills and practice in contemporary orthodontics. Experience in completing lab projects is included in the learning experience. Taught concurrently with DEN 7230 (Lecture component)</p>	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Identify cephalometric landmarks and perform a specific cephalometric analysis in clinical cases and their interpretations. 2. Analyze the arch space utilizing mixed and permanent dentition cases and Bolton Discrepancy in permanent dentition. 3. Identify and manipulate orthodontic armamentarium in wire bending exercises in preclinical lab. 4. Fabricate the basic components of an orthodontic retainer in preclinical lab. 5. Manipulate the orthodontic wires for removable appliances’ repair, and Simple removable appliances fabrication. 6. Apply basic fixed orthodontic appliances clinical techniques such as banding, bonding and bonded retainer. 7. Apply the concept involving molar up-righting and aligning/leveling to be able to use in the general practice. 8. Utilize the pediatric sleep questionnaire and the adult sleep form to screen patients for obstructive sleep apnea in clinic
<p>DS2/SU – 7234 Nitrous Oxide Sedation</p>	<p>The didactic portion of the course covers the history of sedation, the physical properties and pharmacokinetics of nitrous oxide, relevant respiratory anatomy and physiology, indications and contraindications, patient medical assessment, administration and record keeping, complications and management of medical emergencies, and</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the history of sedation, including key historical figures, within the field of Dentistry. 2. Explain the indications and contraindications for the use of nitrous oxide for pain and anxiety control in a dental setting. 3. Evaluate a patient’s medical and psychological suitability for the use of nitrous oxide sedation.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
	<p>finally the ethical and legal implication of inhalation sedation. The clinical aspect of the course requires a demonstration of the knowledge and skill to successfully administer nitrous oxide to a patient while asked questions regarding potential complications that may arise.</p>	<ol style="list-style-type: none"> 4. Describe how the physical properties and pharmacokinetics impact the clinical use of nitrous oxide. 5. Explain the clinically relevant anatomy and physiology of the pulmonary system as it relates to the use of nitrous oxide in dentistry. 6. Administer nitrous oxide to a patient following established protocols for safety, infection control, and record keeping. 7. Discuss the critical components of a complete sedation record for medico-legal record-keeping. 8. Discuss the most common complications and medical emergencies associated with the administration of nitrous oxide, as well as their management. 9. Describe the legal and ethical implications of the safe use of nitrous oxide.
<p>DS2/SU – 7235 Pediatric Dentistry Principles & Techniques Lecture</p>	<p>Offers best practices for the treatment of the child patient including behavior management and the management of anxiety. Topics included: diagnosis and treatment of dental caries, growth and development problems, malocclusion, and traumatic injuries.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate understanding of pediatric dental growth and development. 2. Demonstrate application and synthesis of behavior management skills. 3. Strong understanding of pediatric dental trauma and diagnosis and treatment planning for trauma. 4. Demonstrate development and application of treatment planning and case presentation for pediatric patients. 5. Demonstrate correct collaboration skills with regard to pediatric medicine.
<p>DS2/SU – 7235L Pediatric Dentistry Principles & Techniques Lab</p>	<p>Offers best practices for the treatment of the child patient including behavior management and the management of anxiety. Topics included: diagnosis and treatment of dental caries, growth and development problems, malocclusion, and traumatic injuries.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate understanding of pediatric dental growth and development. 2. Demonstrate application and synthesis of behavior management skills. 3. Have a strong understanding of pediatric dental trauma and diagnosis and treatment planning for trauma.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 4. Demonstrate development and application of treatment planning and case presentation for pediatric patients. 5. Demonstrate correct collaboration skills with regard to pediatric medicine.
<p>DS2/SU – 7240 DSII General Clinic</p>	<p>Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the second year of study</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Conduct a patient interview, including building rapport and obtaining relevant information from the dental and medical histories to safely move forward with urgent and non-urgent dental care. 2. Perform clinical evaluation of patients with a moderate level of dental complexity. 3. Develop diagnoses and treatment plans consistent with subjective and objective data gathered for patients with a moderate level of dental complexity. 4. Adequately manage patients' pain and anxiety. 5. Execute treatment including dental prophylaxis, scaling and root planing, intracoronal restorations, extracoronal restorations including single-tooth and tooth replacement, removable prosthodontics, implant restorations, root canal therapy, urgent/emergent dental care, and uncomplicated and surgical oral surgical procedures. 6. Complete medicolegal documentation including entry of CDT codes, progress notes, informed consent forms, contact notes, and electronic health record forms in a timely manner. 7. Demonstrate the ability to solicit and incorporate feedback into one's development toward a novice clinician. 8. Engage in various models of care ranging from traditional comprehensive to private practice group model to specialty and limited scope care.
<p>DS2/SU – 7241M Simulated Comprehensive Care Lecture</p>	<p>Integrates both didactic information relative to the use of hand pieces in patient care, operative dentistry, and fixed prosthodontics, coupled with preclinical experiences in</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Interpret patient assessment and diagnostic data to formulate differential diagnoses. 2. Establish principals to present information to faculty in a

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
	<p>comprehensive care for a simulated patient. Topics include: treatment planning, more complex restorations, and best practices in documenting procedures. The emphasis will be on patient-centered care, supported by evidence-based dentistry. Taught concurrently with DEN 7241FL (Lab component).</p>	<p>systematic, organized fashion.</p> <ol style="list-style-type: none"> 3. Utilize the electronic health record and understand its importance of clear, accurate documentation for compliance of state and government regulations. 4. Complete chart notes, code entry, and all forms necessary for patient encounters. 5. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient’s goals through patient centered scenarios. 6. Apply technical skills within the scope of treatment. 7. Discuss indications, risks, benefits, and alternatives of treatment options in group discussion. 8. Discuss the importance of communicating to patients behavior modifications that can impact oral health. 9. Assess the quality and outcome of care delivered. 10. Work effectively as well as communicate professionally with members of the course, which may include peers, faculty, and staff. 11. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 12. Formulate a comprehensive view of patient care in the clinical setting.
<p>DS2/SU – 7241ML Simulated Comprehensive Care Lab</p>	<p>Integrates both didactic information relative to the use of hand pieces in patient care, operative dentistry, and fixed prosthodontics, coupled with preclinical experiences in comprehensive care for a simulated patient. Topics include: treatment planning, more complex restorations, and best practices in documenting procedures. The emphasis will be on patient-centered care, supported by</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Interpret patient assessment and diagnostic data to formulate differential diagnoses. 2. Establish principals to present information to faculty in a systematic, organized fashion. 3. Utilize the electronic health record and understand its importance of clear, accurate documentation for compliance of state and government regulations. 4. Complete chart notes, code entry, and all forms necessary for

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
	evidence-based dentistry. Taught concurrently with DEN 7241M (Lecture component).	<p>patient encounters.</p> <ol style="list-style-type: none"> 5. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient’s goals through patient centered scenarios. 6. Apply technical skills within the scope of treatment. 7. Discuss indications, risks, benefits, and alternatives of treatment options in group discussion. 8. Discuss the importance of communicating to patients behavior modifications that can impact oral health. 9. Assess the quality and outcome of care delivered. 10. Work effectively as well as communicate professionally with members of the course, which may include peers, faculty, and staff. 11. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 12. Formulate a comprehensive view of patient care in the clinical setting.
DS2/SU – 7255 Dental Public Health Research and Practice	This course outlines the basis and application of evidence-based practices to prevent oral diseases and promote oral health in communities, using dental public health principles. This course explores how determinants of health, health disparities and inequities influence dental and craniofacial health using contemporary health promotion strategies.	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Describe current dental public health practice in the US and its impact on oral disease • Identify principles of epidemiology and oral epidemiology and its value in understanding disease processes • Define contemporary community-based programs that promote oral health within populations • Demonstrate knowledge of determinants of oral health and dental public health methods to reduce oral health disparities and assure health equity • Discuss agencies at the federal and state levels that impact the oral health status for their respective populations • Identify signs of intimate partner violence and the role of the dentist in prevention

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ul style="list-style-type: none"> • Describe the roles and responsibilities of dental professionals as a health professional, service provider, and member of the community serving as a community leader and resource to promote oral health and prevent oral diseases
<p>DS3/FA – 7320 Clinical Medicine I</p>	<p>Clinical Medicine is incorporated into the curriculum in sequence with the completion of biomedical and clinical science foundational instructional material and at the beginning of significant student-patient interaction. The goal is to achieve maximum integration between the study of disease, the study of the patient, and the diagnostic and therapeutic processes in the oral health care setting. Essential critical thinking and problem solving skills are developed through case studies of the child, adolescent, adult, and geriatric patient.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the physiology and pathophysiology of medical conditions that are encountered most frequently and that have the greatest impact on safe delivery of dental care. 2. Explain the follow-up questions asked to elicit severity of systemic diseases. 3. Apply biomedical science knowledge in assessing medically complex patients for dental care. 4. Demonstrate critical thinking skills. 5. Apply clinical practice guidelines and other evidence to the management of medically complex patients in a dental setting. 6. Distinguish between a medical consultation and referral and when each is indicated. 7. Communicate effectively with other members of the health care team, in the form of medical consultations and referrals. 8. Explain the importance of self-care and personal well-being for health care providers.
<p>DS3/FA – 7321 Principles of Periodontal Surgery</p>	<p>Provides preparation for the clinical management of advanced periodontal disease requiring surgical intervention. In clinical settings the ability to assess the need for surgical care versus continued non-surgical management, plan and present surgery as an option and observe/assist/perform basic periodontal surgical procedures is required. A surgery lab introduces procedures that can be personally managed in practice.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the surgical anatomy of the periodontium. 2. Describe the principles of periodontal surgical interventions 3. Describe the indications and contraindications of periodontal surgical procedures. 4. Appraise the periodontal surgical interventions and their advantages and disadvantages. 5. Describe the potential complications of periodontal surgical interventions.
<p>DS3/FA – 7324</p>	<p>Presents the principles and techniques related to restoration of individual anterior and</p>	<p>At the conclusion of this course, the dental student will be able to:</p>

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
Aesthetic Dentistry – Principles and Techniques	posterior teeth and replacement and/or restoration of multiple missing teeth will be presented. Topics include tooth bleaching; principles of shade selection and matching; materials selection for esthetic dentistry; diagnosis of congenital traumatic and caries related defects; and treatment planning esthetic procedures.	<ol style="list-style-type: none"> 1. Evaluate facial proportions as it relates to comprehensive diagnosis and treatment planning of the dental patient. 2. Treatment plan interdisciplinary cases where teeth are not in the correct position. 3. Evaluate wear patterns to aid with treatment planning and the development of a successful occlusion. 4. Describe and apply primary principles and mechanisms of adhesion. 5. Explain the indications of indirect restorations as well as preparation techniques for various materials used for indirect restorations. 6. Describe the techniques and preparation design for direct restorations including the closing of “black triangles” for various aesthetic situations. 7. Formulate predictable treatment plans for the use of implants in the aesthetic zone to ensure papilla formation. 8. Discuss the indications, risks, benefits, and alternatives for extracoronary restorations used in the aesthetic zone. 9. Describe how to develop the implant site/emergence profile utilizing a provisional restoration. 10. Utilize photography to aid with the interdisciplinary treatment planning process including case presentation to the patient.
DS3/FA – 7326 Oral and Maxillofacial Pathology I	Oral Pathology I and II are lecture-seminar offerings which have been designed as two successive one-semester progressions to maintain continuity in the sequencing of material. Knowledge of the etiology, epidemiology, pathophysiology, and histopathology of pathologic processes as they relate to examination, evaluation, treatment, and prognosis of the patient will be learned. The scope of pathology that affects the oral and maxillofacial region will be explored,	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the various structural and functional changes that occur in cells, tissues and organs as a result of pathologic processes. 2. Describe the molecular, microbiologic and immunologic techniques that the pathologist uses to analyze these changes. 3. Recognize and understand the pathogenesis of developmental, inflammatory, neoplastic, systemic and degenerative diseases. 4. Explain the components and relationship of etiologic and epidemiologic factors related to pathologic principles.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
	<p>including developmental anomalies; reactive, inflammatory, and infectious conditions; immunologic disorders; neoplasia; and oral manifestations of systemic and genetic diseases. Emphasis is placed on formulating differential diagnoses and clinical-pathological correlation.</p>	<ol style="list-style-type: none"> 5. Demonstrate the knowledge, judgment, and skill required to appropriately recognize clinical pathologic lesions. 6. Critically evaluate relevant scientific literature based on their understanding of pathological concepts
<p>DS3/FA – 7340F DSIII General Dentistry Clinic</p>	<p>Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the third year of study.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Obtains chief complaint, history of present illness, medical, dental, and social history for patients seeking dental care. 2. Assess the medical and psychosocial status of a patient, asking appropriate follow-up questions, in order to determine if any modifications are necessary to dental care or preventive oral home care, including a referral to a more advanced provider. 3. Write medical consultation requests to members of the health care team in order to obtain clarifications on patients' medical stability for elective or medically necessary dental treatment. 4. Determine need for, order, and interpret appropriate radiographs and apply radiologic interventions safely and effectively. 5. Record and interpret patient assessment and diagnostic data to formulate differential diagnoses. 6. Present patients to faculty in a systematic, organized fashion. 7. Complete chart notes, code entry, and all forms necessary for each encounter. 8. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient's goals. 9. Discuss indications, risks, benefits, and alternatives of treatment options and obtain informed consent. 10. Engage patients to change behavior and improve health. 11. Provide appropriate level of pain and anxiety control, including safe and effective administration of local anesthetic.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 12. Perform safe and effective dental prophylaxis, caries control, intracoronary restorations, simple surgical procedures, endodontic therapy, fixed prosthodontics, removable prosthodontic, and implant-retained prostheses to children, adults, and older adults safely and effectively. 13. Prescribe appropriate pre-operative and post-operative analgesic and antimicrobial drugs when indicated, according to evidence-based guidelines. 14. Assess the quality and outcome of care delivered. 15. Show advanced preparation for clinic, including reviewing didactic materials, setting up cubicle and starting patient care on-time, and practicing in the simulation lab prior to procedure, if needed. 16. Provide ethical care by putting the patients' needs first. 17. Work effectively with members of the team, which may include peers, faculty, and staff. 18. Communicate effectively and respectfully with patients and their families, staff, peers, faculty, and other members of the health care team. 19. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 20. Demonstrate the ability to solicit and incorporate feedback into one's development toward a novice clinician. 21. Engage in various models of care ranging from traditional comprehensive to private practice group model to specialty and limited scope care.
<p>DS3/SP – 7327 Oral and Maxillofacial Pathology II</p>	<p>Oral Pathology I and II are lecture-seminar offerings which have been designed as two successive one-semester progressions to maintain continuity in the sequencing of material. Knowledge of the etiology, epidemiology, pathophysiology, and histopathology of pathologic</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the various structural and functional changes that occur in cells, tissues and organs as a result of pathologic processes. 2. Describe the molecular, microbiologic and immunologic techniques that the pathologist uses to analyze these changes. 3. Recognize and understand the pathogenesis of developmental, inflammatory, neoplastic, systemic and degenerative diseases.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
	<p>processes as they relate to examination, evaluation, treatment, and prognosis of the patient will be learned. The scope of pathology that affects the oral and maxillofacial region will be explored, including developmental anomalies; reactive, inflammatory, and infectious conditions; immunologic disorders; neoplasia; and oral manifestations of systemic and genetic diseases. Emphasis is placed on formulating differential diagnoses and clinical-pathological correlation.</p>	<ol style="list-style-type: none"> 4. Explain the components and relationship of etiologic and epidemiologic factors related to pathologic principles. 5. Demonstrate the knowledge, judgment, and skill required to appropriately recognize clinical pathologic lesions. 6. Critically evaluate relevant scientific literature based on their understanding of pathological concepts
<p>DS3/SP – 7328 Clinical Medicine II</p>	<p>Provides experience in the evaluation, diagnosis, and treatment planning for patients of all ages. Comprehensive treatment plans based on systemic findings and patient considerations will be developed to help achieve maximum integration between the study of disease, the study of the patient, and the diagnostic and therapeutic processes in the oral health care setting.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the physiology and pathophysiology of medical conditions that are encountered most frequently and that have the greatest impact on safe delivery of dental care. 2. Explain the follow-up questions asked to elicit severity of systemic diseases. 3. Apply biomedical science knowledge in assessing medically complex patients for dental care. 4. Demonstrate critical thinking skills. 5. Apply clinical practice guidelines and other evidence to the management of medically complex patients in a dental setting. 6. Distinguish between a medical consultation and referral and when each is indicated. 7. Communicate effectively with other members of the health care team, in the form of medical consultations and referrals. 8. Explain the management of the most common and life-threatening medical emergencies in an outpatient dental setting.
<p>DS3/SP – 7332 Temporomandibular Disorders</p>	<p>Etiology, diagnosis and treatment of TM Disorders. Current dominant multifactorial concept of etiology of TM Disorders.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the multi-factorial theory of TM Disorders. 2. Identify the accepted signs and symptoms of TM Disorders. 3. Distinguish simple TM Disorders vs. complex TM Disorders.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 4. Define acute pain and TM Disorders as well as chronic pain and TM Disorders. 5. Identify differential diagnosis of TMD/Head Pain 6. Differentiate the various therapies used in treatment of TM Disorders. 7. Differentiate the various drugs used in treatment of TM Disorders. 8. List indications and contraindications method of treatment based on diagnostic data and multifactorial nature of the disease. 9. Describe dosages for each drug. 10. Demonstrate an ability to diagnose and develop a treatment plan related to parafunction and TM Disorders. 11. Differentiate the various therapies used in treatment of TM Disorders. 12. Explain and define diagnostic value, interpretation and clinical relevancy of conventional TMJ Radiography and advanced imaging techniques of the TM Joints and associated structure. 13. Describe the roles that oral surgery, play in diagnosis and treatment/management of TM Disorders. 14. Present the accepted palliative care regimen and conservative, reversible regimen of treatment and how and when to refer TM Disorder patients.
<p>DS3/SP – 7334 Oral and Maxillofacial Surgery II</p>	<p>Students will learn the principles of diagnosis and planning oral surgical techniques. Uncomplicated exodontia, treatment of infection and exodontias and traumatic injuries will be addressed.</p>	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the components of the medical evaluation of the surgery patient 2. Discuss a general understanding of the role of dentists in the history of anesthesia progress 3. Discuss as review the basic principles of anesthesia pharmacology related local anesthesia for surgical patients 4. Discuss as review the important protocols for profound anesthesia for surgery patient 5. Discuss the basics of pharmacology, techniques, and monitoring for the safe delivery of oral sedation

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ul style="list-style-type: none"> 6. Discuss the fundamentals of cellular changes involved in the formation and progression of benign and malignant tumors 7. Discuss the findings, diagnosis and treatment of benign and malignant tumors of the oral region 8. Discuss the guidelines for obtaining and reporting of patient history for pathological exam
<p>DS3/SP – 7336 Lasers In Dentistry</p>	<p>Presents basic principles and use of laser dental equipment. It strictly conforms to Nevada State regulations for use of laser radiation in dental practice (NAC 631.033 and 631.035).</p>	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> a. Understand the standard level laser principles outlined by NAC 631.033 and 631.035; approved by the Nevada State Board of Dental Examiners; and outlined by the Academy of Laser Dentistry. b. Competently demonstrate class 4 dental laser use on tissue per Nevada State regulations for use of laser radiation in dental practice (NAC 631.033 and 631.035). c. Meet all Nevada State proficiency requirements for laser use upon licensure. d. Have knowledge of basic laser physics, laser-tissue interaction, and specific laser safety requirements for the dental treatment area. e. Have knowledge of the device and basic laser and biologic interactions including the safety recommendations outlined in the American National Standard for the Safe Use of Lasers, and the American National Standard for the Safe Use of Lasers in Health Care Facilities. f. Have knowledge of laser properties including wavelength, absorption, reflection, transmission, and scatter; emission modes; delivery systems; beam characteristics and divergence. g. Demonstrate knowledge of photothermal, photochemical, photoacoustic, and photobiomodulation events, tissue absorption characteristics, and the effects of wavelength, spot size, power, exposure duration, energy density, and repetition rate. h. Know and physically demonstrate a laser treatment modality (<i>e.g.</i>, ablation, coagulation, or excision) on tissue. i. Have demonstrated knowledge of appropriate settings to attain specific treatment outcomes supported by research.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<p>j. Be able to recognize successful treatment outcomes, manage adverse effects, and have knowledge of the adverse effect reporting mechanism.</p>
<p>DS3/SP – 7340S DSIII General Dentistry Clinic</p>	<p>Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the third year of study.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Obtains chief complaint, history of present illness, medical, dental, and social history for patients seeking dental care. 2. Assess the medical and psychosocial status of a patient, asking appropriate follow-up questions, in order to determine if any modifications are necessary to dental care or preventive oral home care, including a referral to a more advanced provider. 3. Write medical consultation requests to members of the health care team in order to obtain clarifications on patients' medical stability for elective or medically necessary dental treatment. 4. Determine need for, order, and interpret appropriate radiographs and apply radiologic interventions safely and effectively. 5. Record and interpret patient assessment and diagnostic data to formulate differential diagnoses. 6. Present patients to faculty in a systematic, organized fashion. 7. Complete chart notes, code entry, and all forms necessary for each encounter. 8. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient's goals. 9. Discuss indications, risks, benefits, and alternatives of treatment options and obtain informed consent. 10. Engage patients to change behavior and improve health. 11. Provide an appropriate level of pain and anxiety control, including safe and effective administration of local anesthetic. 12. Perform safe and effective dental prophylaxis, caries control, intracoronal restorations, simple surgical procedures, endodontic therapy, fixed prosthodontics, removable prosthodontic, and

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<p>implant-retained prostheses to children, adults, and older adults safely and effectively.</p> <ol style="list-style-type: none"> 13. Prescribe appropriate pre-operative and post-operative analgesic and antimicrobial drugs when indicated, according to evidence-based guidelines. 14. Assess the quality and outcome of care delivered. 15. Show advanced preparation for clinic, including reviewing didactic materials, setting up cubicle and starting patient care on-time, and practicing in the simulation lab prior to procedure, if needed. 16. Provide ethical care by putting the patients' needs first. 17. Work effectively with members of the team, which may include peers, faculty, and staff. 18. Communicate effectively and respectfully with patients and their families, staff, peers, faculty, and other members of the health care team. 19. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 20. Demonstrate the ability to solicit and incorporate feedback into one's development toward a novice clinician. 21. Engage in various models of care ranging from traditional comprehensive to private practice group model to specialty and limited scope care.
<p>DS3/SP – 7350 Practice Administration</p>	<p>Presents the management of the non-clinical aspects of a dental practice. It will consist of three components: practice management, jurisprudence, and ethics</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Evaluate all available patient data to formulate a treatment plan and present it to a patient in an efficient way. 2. Have a basic understanding of running a dental practice organization, from choosing a practice location, designing an office, getting financial capital, hiring staff, using outside consultants, training, regulatory agencies, equipment and supplies, and legal issues. 3. Begin developing the skills to manage all of the above, such as communication skills, time management skills, schedule

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
<p>DS3/SP – 7360 Ethics and Interprofessional Practice in Health Care</p>	<p>This course introduces the student to issues and ethical situations encountered in contemporary dental practice. Some examples include treatment decisions, incorporation of new technologies, and alternative delivery systems. Ethical constructs and solutions will be presented within the context of the ADA Principles of Ethics and Professional Behavior. Students will provide an overview of an ethical issue and describe alternative views to the situation using evidence-based information. Topics from the professional literature will be included. Interprofessional practice is one of the future models of oral health care. Students will participate in an all-day educational experience with 6-8 other healthcare practitioners learning how to work collaboratively to meet patients' health care needs.</p>	<p>management and personal issues such as handling stress, personal finances and physical and mental health.</p> <p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • Demonstrate enhanced problem-solving and critical-thinking skills • Demonstrate enhanced clinical decision-making skills • Define and discuss pertinent ethical issues in the practice of dentistry, including patient care delivery, communication, and practice management • Identify specific issues relating to the ADA Principles of Ethics Professional Behavior and Code of Professional Conduct • Outline ethical issues relating to their own professional development: past, present, and future • Demonstrate an ability to practice as a team with other health professionals to meet patient health needs
<p>DS3/SU – 7325 DSIII Advanced General Dentistry Seminar</p>	<p>Presents advanced concepts, techniques, and treatment procedures related to operative dentistry and the restoration of individual teeth. Experience with mock examinations similar to those found on the national board examinations will be offered.</p>	<p>At the conclusion of this course, the student will be able to describe advanced restorative dentistry techniques presented in the course including:</p> <ol style="list-style-type: none"> 1. Develop differential diagnosis, based on patient presentations and formulate treatment plans based on patient –specific factors, goals, and current evidenced-based criteria. 2. Describe advanced techniques and treatment options in restorative, endodontics, periodontics, fixed, removable, digital dental technology, and implant dentistry. 3. Explain the impact of occlusion and malocclusion on developing a prosthodontic treatment plan. 4. Identify correct billing codes for various treatments.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ul style="list-style-type: none"> 5. Critically evaluate the outcome of treatment. 6. Perform multiple –tooth fixed dental prosthetic preparations and provisionalization for cast metal, ceramo-metal and all ceramic prostheses.
<p>DS3/SU – 7333 Principles of Removable Partial Dentures</p>	<p>Presents basic and advanced principles and philosophy of Removable Prosthodontics. Examination, treatment planning and preparation of partially edentulous patients to receive removable partial dentures, as well as treatment plans for pre-prosthetic surgery cases and other removable treatment may be learned.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> a. Critically evaluate data from a selected patient's medical history, clinical findings, radiological exam, and mounted study casts as related to PRDP design. b. Formulate evidence-based PRDP treatment plans, including alternative treatment plans. c. Explain the pros and cons of different evidence-informed PRDP designs. d. Identify pertinent patient issues, including hard and soft tissue anomalies and pathologies, as related to PRDP design. e. Formulate the most healthy, functional PRDP designs for discrete edentulous conditions.
<p>DS3/SU – 7340M DSIII General Dentistry Clinic</p>	<p>Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the third year of study.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> 1. Obtains chief complaint, history of present illness, medical, dental, and social history for patients seeking dental care. 2. Assess the medical and psychosocial status of a patient, asking appropriate follow-up questions, in order to determine if any modifications are necessary to dental care or preventive oral home care, including a referral to a more advanced provider. 3. Write medical consultation requests to members of the health care team in order to obtain clarifications on patients' medical stability for elective or medically necessary dental treatment. 4. Determine need for, order, and interpret appropriate radiographs and apply radiologic interventions safely and effectively. 5. Record and interpret patient assessment and diagnostic data to formulate differential diagnoses. 6. Present patients to faculty in a systematic, organized fashion. 7. Complete chart notes, code entry, and all forms necessary for

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<p>each encounter.</p> <ol style="list-style-type: none"> 8. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient’s goals. 9. Discuss indications, risks, benefits, and alternatives of treatment options and obtain informed consent. 10. Engage patients to change behavior and improve health. 11. Provide appropriate level of pain and anxiety control, including safe and effective administration of local anesthetic. 12. Perform safe and effective dental prophylaxis, caries control, intracoronal restorations, simple surgical procedures, endodontic therapy, fixed prosthodontics, removable prosthodontic, and implant-retained prostheses to children, adults, and older adults safely and effectively. 13. Prescribe appropriate pre-operative and post-operative analgesic and antimicrobial drugs when indicated, according to evidence-based guidelines. 14. Assess the quality and outcome of care delivered. 15. Show advanced preparation for clinic, including reviewing didactic materials, setting up cubicle and starting patient care on-time, and practicing in the simulation lab prior to procedure, if needed. 16. Provide ethical care by putting the patients’ needs first. 17. Work effectively with members of the team, which may include peers, faculty, and staff. 18. Communicate effectively and respectfully with patients and their families, staff, peers, faculty, and other members of the health care team. 19. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 20. Demonstrate the ability to solicit and incorporate feedback into one’s development toward a novice clinician. 21. Engage in various models of care ranging from traditional

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
<p>DS3/SU – 7351 Practice Administration III</p>	<p>Presents the management of the non-clinical aspects of a dental practice. It will consist of three components: practice management (including the behavioral aspects of patient management), jurisprudence, and ethics.</p>	<p>comprehensive to private practice group model to specialty and limited scope care.</p> <p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the legal, accounting, finance, marketing, time management, patient communication, and employee management skills necessary for successful management of a dental practice. 2. Explain the factors taken into consideration for selecting equipment, supplies and labs for a dental office. 3. Explain how regulatory bodies, laws, rules and regulations, impact dental care and dental careers. 4. Apply the ADA Code of Ethics to clinical scenarios commonly faced by practicing dentists.
<p>DS3/SU – 7354 Community Outreach: Disabled and Special Needs Population</p>	<p>Provides knowledge and skills needed to work with patients with special needs. Topics include: etiology and prevalence of common disabling conditions; barriers to dental care for disabled/special needs individuals; psychological and social factors which impact the disabled/special needs population.</p>	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Comprehension of basic special needs patient profiles 2. Comprehension of types of disabilities 3. Evaluation of medical consents 4. Synthesis of definitions, examples, and requirements of disability and medical data collection 5. Analysis of information and application of data collection and organization 6. Comprehension of Oral lesions, complementary and interactive medications in dentistry 7. Knowledge and evaluation of barriers to care 8. Evaluation of barriers 9. Analysis of categories of barriers 10. Insight into types of behavioral disabilities 11. Application of understanding of a variety of immunocompromised Patient 12. Synthesis of the aspects and standards associated with immunocompromised patients. 13. Analysis of models associated with patients with these disorders.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ul style="list-style-type: none"> 14. Understanding and Synthesis of the GA and IV process 15. Application of safety requirements for GA and IV processes 16. Evaluation of Local anesthesia and assessment of safety issues 17. Comprehension of the differences between simple and complex patient needs 18. Application of information on data collection and treatment planning skills 19. Synthesis of the set of rules and standards required for management of special patients. 20. Evaluation of the composition of Psychiatric Disorders 21. Synthesis of organic psychiatric disorders 22. Comprehension of intellectual disorders
<p>DS3/SU – 7359 Community Outreach: Rural Rotation</p>	<p>Provides general dental services for patients in under-served areas of Nevada under the supervision of adjunct dental clinical faculty. A minimum of fifteen (15) hours of approved community service is required before continuing to the fourth year of study is allowed.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> 1. Identify services available to promote oral health and assess the individual and community access to these services. 2. Demonstrate the ability to communicate with diverse and special populations concerning etiology and prevention of oral diseases in non-clinical community settings. 3. Collaborate with other health care professionals and stakeholders to contribute to the improvement of oral health promotion beyond those served in traditional practice settings. 4. Utilize public health assessment tools (screening) to assess oral health status.
<p>DS3/SU – 7399 Advanced Endodontics Elective (Root Camp)</p>	<p>Offers advanced non-surgical endodontic procedures, including molar therapy. Topics include: the use of rotary cleaning and shaping techniques. Designed for the use of endodontic procedures in private practice. Not for individuals intending to go into a specialty/residency program.</p>	<p>At the conclusion of this course, the dental student will be able to:</p> <ul style="list-style-type: none"> 1. Provide accurate pulpal and periapical diagnoses based on history, clinical, and radiographic evaluation. 2. Perform complex non-surgical endodontic treatment, including the use of rotary instruments, warm vertical obturation with gutta percha, and single-cone with bioceramic sealer. 3. Obtain radiographs of diagnostic quality for the safe delivery of endodontic therapy.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
<p>DS3/SU – 7426 Forensic Dentistry</p>	<p>Introductory course designed to acquaint dental student to field of forensic dentistry and help prepare the student to respond to the possibility of mass fatality incidents in their practice areas.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the forensic dentistry workup of a deceased individual, including conclusive and circumstantial evidence. 2. Explain the role of a general dentist's records in identifying a deceased individual, including the identification of abuse. 3. Identify resources available for forensic dentistry guidelines. 4. Discuss the history of a dentist's role in forensic science. 5. Discuss the laws and regulatory bodies that impact forensic dentistry. 6. Explain the role of a dentist in mass fatalities, including bioterrorism events.
<p>DS4/FA – 7425 Advanced General Dentistry II</p>	<p>The course will present knowledge to provide comprehensive general dentistry in practice setting. Experience with mock examinations similar to those found on the national board examinations will be offered.</p>	<p>At the conclusion of this course, the dental student will be able to describe advanced restorative dentistry techniques presented in the course including:</p> <ol style="list-style-type: none"> 1. Develop differential diagnosis, based on patient presentations and formulate treatment plans based on patient-specific factors, goals, and current evidence-based criteria. 2. Describe advanced techniques and treatment options in radiology, periodontics, fixed and removable prosthodontics, restorative, oral surgery, oral pathology and implant dentistry. 3. Discuss advances in dental materials as it pertains to luting cements. 4. Explain the impact of occlusion and malocclusion on developing a prosthodontic treatment plan. 5. Describe the anesthetic options available for dental treatment and their requirements. 6. Assess the treatment needs of patients with special needs. 7. Explain the communication skills needed to promote patient care with dental practice partners. 8. Critically evaluate tooth preparations and the outcome of treatment. 9. Explain the importance of life-long learning.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
DS4/FA – 7440F DSIV General Dentistry Clinic	Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the third year of study.	At the conclusion of this course, the student will be able to: <ol style="list-style-type: none"> 1. Obtains chief complaint, history of present illness, medical, dental, and social history for patients seeking dental care. 2. Assess the medical and psychosocial status of a patient, asking appropriate follow-up questions, in order to determine if any modifications are necessary to dental care or preventive oral home care, including a referral to a more advanced provider. 3. Write medical consultation requests to members of the health care team in order to obtain clarifications on patients' medical stability for elective or medically necessary dental treatment. 4. Determine need for, order, and interpret appropriate radiographs and apply radiologic interventions safely and effectively. 5. Record and interpret patient assessment and diagnostic data to formulate differential diagnoses. 6. Present patients to faculty in a systematic, organized fashion. 7. Complete chart notes, code entry, and all forms necessary for each encounter. 8. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient's goals. 9. Discuss indications, risks, benefits, and alternatives of treatment options and obtain informed consent. 10. Engage patients to change behavior and improve health. 11. Provide an appropriate level of pain and anxiety control, including safe and effective administration of local anesthetic. 12. Perform safe and effective dental prophylaxis, caries control, intracoronal restorations, simple surgical procedures, endodontic therapy, fixed prosthodontics, removable prosthodontic, and implant-retained prostheses to children, adults, and older adults safely and effectively. 13. Prescribe appropriate pre-operative and post-operative analgesic and antimicrobial drugs when indicated, according to evidence-based guidelines.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 14. Assess the quality and outcome of care delivered. 15. Show advanced preparation for clinic, including reviewing didactic materials, setting up cubicle and starting patient care on-time, and practicing in the simulation lab prior to procedure, if needed. 16. Provide ethical care by putting the patients' needs first. 17. Work effectively with members of the team, which may include peers, faculty, and staff. 18. Communicate effectively and respectfully with patients and their families, staff, peers, faculty, and other members of the health care team. 19. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 20. Demonstrate the ability to solicit and incorporate feedback into one's development toward a novice clinician. 21. Engage in various models of care ranging from traditional comprehensive to private practice group model to specialty and limited scope care.
<p>DS4/FA – 7443F Clinical Diagnostic Conference – Grand Rounds</p>	<p>Participants will present and critically evaluate selected clinical cases, enabling them to integrate their clinical knowledge and demonstrate their skills in clinical judgment and critical thinking.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Critically evaluate data from a selected patient's medical history, clinical findings, radiological exam, and mounted study casts, and formulate an appropriate treatment plan and alternatives. 2. Discuss pertinent issues relative to treatment planning, medical complexity, pathology, pathophysiology, oral medicine, patient's behavior, and dental ethics. 3. Integrate scientific literature, including appraisal of quality and level of evidence, into dental case treatment planning and presentations.
<p>DS4/SP – 7440S DSIV General Dentistry Clinic</p>	<p>Provides instruction and experience in all aspects of patient care in the general dentistry clinic in the third year of study.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Obtains chief complaint, history of present illness, medical, dental, and social history for patients seeking dental care. 2. Assess the medical and psychosocial status of a patient, asking appropriate follow-up questions, in order to determine if any

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<p>modifications are necessary to dental care or preventive oral home care, including a referral to a more advanced provider.</p> <ol style="list-style-type: none"> 3. Write medical consultation requests to members of the health care team in order to obtain clarifications on patients' medical stability for elective or medically necessary dental treatment. 4. Determine need for, order, and interpret appropriate radiographs and apply radiologic interventions safely and effectively. 5. Record and interpret patient assessment and diagnostic data to formulate differential diagnoses. 6. Present patients to faculty in a systematic, organized fashion. 7. Complete chart notes, code entry, and all forms necessary for each encounter. 8. Demonstrate critical thinking and clinical reasoning by formulating evidence-based patient-centered treatment plans based on diagnoses, risk profiles, and patient's goals. 9. Discuss indications, risks, benefits, and alternatives of treatment options and obtain informed consent. 10. Engage patients to change behavior and improve health. 11. Provide appropriate levels of pain and anxiety control, including safe and effective administration of local anesthetic. 12. Perform safe and effective dental prophylaxis, caries control, intracoronal restorations, simple surgical procedures, endodontic therapy, fixed prosthodontics, removable prosthodontic, and implant-retained prostheses to children, adults, and older adults safely and effectively. 13. Prescribe appropriate pre-operative and post-operative analgesic and antimicrobial drugs when indicated, according to evidence-based guidelines. 14. Assess the quality and outcome of care delivered. 15. Show advanced preparation for clinic, including reviewing didactic materials, setting up cubicle and starting patient care on-time, and practicing in the simulation lab prior to procedure, if needed. 16. Provide ethical care by putting the patients' needs first.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		<ol style="list-style-type: none"> 17. Work effectively with members of the team, which may include peers, faculty, and staff. 18. Communicate effectively and respectfully with patients and their families, staff, peers, faculty, and other members of the health care team. 19. Discuss the management of the most common and significant medical emergencies that occur in the outpatient dental setting. 20. Demonstrate the ability to solicit and incorporate feedback into one's development toward a novice clinician. 21. Engage in various models of care ranging from traditional comprehensive to private practice group model to specialty and limited scope care.
<p>DS4/SP – 7443S Clinical Diagnostic Conference – Grand Rounds</p>	<p>Participants will present and critically evaluate selected clinical cases, enabling them to integrate their clinical knowledge and demonstrate their skills in clinical judgment and critical thinking.</p>	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Critically evaluate data from a selected patient's medical history, clinical findings, radiological exam, and mounted study casts, and formulate an appropriate treatment plan and alternatives. 2. Discuss pertinent issues relative to treatment planning, pathology, and oral medicine including appropriate references to current literature, patient's behavior, and dental ethics.
<p>DS4/SP – 7453 Dental Jurisprudence</p>	<p>The course reviews the current legal rules and regulatory issues that govern and impact the contemporary practice of dentistry. Topics include state and federal laws and regulations, licensure, professional liability, personnel issues, etc.</p>	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Discuss and differentiate between the principles and rules of law affecting the practice of dentistry. 2. Critically analyze issues in the context of the legal rules that apply to the dental profession. 3. Discuss and differentiate Nevada state dental laws, rules, interpretive statements, and guidelines. 4. Discuss dental regulatory compliance issues (e.g., environment and radiation, general business, infection control, OSHA and privacy/HIPAA, etc.) 5. Discuss, using case studies, the legal and ethical issues affecting the practice of dentistry.
<p>DS1/SU – 7163</p>	<p>This course allows opportunities within the first year to participate in one of the following</p>	<p>At the conclusion of this course, the student will be able to:</p>

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
Enrichment Program – Elective	activities: research; clinical activity; community outreach under the supervision of a dentist/mentor.	<ol style="list-style-type: none"> 1. The student will build a foundational knowledge base in basic research methods 2. The student will be able to identify a research question and hypothesis 3. The student will be able to describe the basic types of research (retrospective, prospective) and research design (cross-sectional, clinical, biomedical, longitudinal) 4. The student will be able to critically evaluate relevant scientific literature based on their understanding of evidence-based research
DS2/SU – 7263 Enrichment Program - Elective	This course allows second year (DS2) dental students to engage in supervised research enrichment to complement the didactic, preclinical and clinical coursework already completed.	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 5. The student will build a foundational knowledge base in basic research methods 6. The student will be able to identify a research question and hypothesis 7. The student will be able to describe the basic types of research (retrospective, prospective) and research design (cross-sectional, clinical, biomedical, longitudinal) 8. The student will be able to critically evaluate relevant scientific literature based on their understanding of evidence-based research
DS3/FA – 7338 Advanced Orthodontics - Elective	Presents opportunities to advance skills and practice clear aligners. Experience in completing lab projects is included in the learning experience.	<p>At the conclusion of this course, the dental student will be able to:</p> <ol style="list-style-type: none"> 1. Understand the advanced concept, technique, indication and contra-indication of Clear Aligner Therapy 2. Classify orthodontic malocclusions and determine basic treatment needs. 3. Explain appropriate treatment sequence during comprehensive dental care and treatment planning.
DS3/FA,SP – 7355 Oral Maxillofacial Surgery Clinic – Elective	This is a preparatory elective course required prior to the OMS 2 advanced course in oral and maxillofacial surgical procedures for the general dentist bound for practicing in	The student upon completion of this course should understand advanced flap design, recovery of fracture teeth, exostosis removal, beginning third molar extractions and be prepared for OMS #2 advanced elective course. This knowledge includes triaging of advanced cases to determine when to refer instead of treating.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
	rural/underserved locations and those wishing to attend OMS residencies.	<ol style="list-style-type: none"> 1. Understand and apply the components of thorough evaluation and documentation medical history and physical exam for the surgery patient. 2. Be able to grasp the important events in the development of contemporary anesthesia contributed by the dental profession 3. To review and acquire a deeper understanding of the specific differences in reference to pharmacology and technique for the reduction of anesthetic failures in surgery patients 4. Understand the basic physiology of cellular changes leading to oral benign and malignant tumors 5. Understand the classification, diagnostic criteria and treatment principles for oral benign and malignant tumors 6. Understand the guidelines for obtaining of, preservation of, and submission of biopsy specimens 7. Understand the writing of prescriptions, guidelines, and selection of antibiotics and analgesics for surgery patients
DS3/SU – 7363 Enrichment Program – Elective	This course allows third year (DS3) dental students to engage in supervised research enrichment to complement the didactic, preclinical and clinical coursework already completed.	<p>At the conclusion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. The student will build a foundational knowledge base in basic research methods 2. The student will be able to identify a research question and hypothesis 3. The student will be able to describe the basic types of research (retrospective, prospective) and research design (cross-sectional, clinical, biomedical, longitudinal) 4. The student will be able to critically evaluate relevant scientific literature based on their understanding of evidence-based research
DS4/SP – 7441 Oral Histopathology – Elective	Histopathology is an elective lecture-seminar which has been designed to build upon knowledge gained from Oral and Maxillofacial Pathology I and II. It serves as an extension course for those interested in expanding their knowledge of the clinical, radiographic, and	Histopathology is an elective lecture-seminar course which has been designed to build upon knowledge gained from Oral and Maxillofacial Pathology I and II. It serves as an extension course for students interested in expanding their knowledge of the clinical and microscopic aspects of oral and maxillofacial diseases.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
	<p>microscopic aspects of oral and maxillofacial diseases.</p>	<ol style="list-style-type: none"> 1. The student will build a foundational knowledge of the etiology, epidemiology, pathophysiology and histopathology of pathologic processes as they relate to examination, evaluation, treatment and prognosis of the patient. 2. The student will be able to describe the various structural and functional changes that occur in cells, tissues and organs as a result of pathologic processes. 3. The student will be able to describe the molecular, microbiologic and immunologic techniques that the pathologist uses to analyze these changes. 4. The student will be able to recognize and understand the pathogenesis of developmental, inflammatory, neoplastic, systemic and degenerative diseases. 5. The student will be able to explain the components and relationship of etiologic and epidemiologic factors related to pathologic principles. 6. The student will demonstrate knowledge, judgment and skill required to appropriately recognize clinical pathologic lesions. 7. The student will be able to critically evaluate relevant scientific literature based on their understanding of pathological concepts.
<p>DS4/FA,SP, SU – 7451 Honors Advanced Restorative – Elective</p>	<p>Presents advanced topics and clinical restoration of a more complex dentition, which may include removable, fixed, esthetic and implant restorations. Designed for those who are intending to enter specialty or resident programs as well as general private practice.</p>	<p>Student Learning Outcomes:</p> <ol style="list-style-type: none"> 1. Discuss factors taken into consideration for advanced restorative dental cases, including predictable prostheses. 2. Analyze a patient’s occlusal scheme and temporomandibular-joint to determine how safely and predictably a patient’s dentition can be restored. 3. Formulate comprehensive treatment plans with a focus on aesthetic reconstruction and facial analysis. 4. Determine when aesthetic dental reconstruction cases are within the scope of a general dentist and when patients should be referred to advanced providers.

COURSE DESCRIPTIONS AND LEARNING OUTCOMES

Year/Sem – Course #/Name	Course Description (from syllabus)	Course Learning Objectives (from syllabus)
		5. Perform aesthetic procedures safely and efficiently for patients within the context of a comprehensive treatment plan.