

# **UAB** DENTISTRY

## Course Catalog

The University of Alabama at Birmingham School of Dentistry (UAB SOD) is an American Dental Association accredited institution. The 4-year curriculum prepares students for the practice of general dentistry while introducing the various aspects of specialty care. The following is a description of the curricular goals of each term (fall & spring terms each year) as well as descriptions of each course. The curriculum is regularly reviewed and courses and content change yearly to keep abreast of the ever-evolving field of dentistry.

Course descriptions are grouped by year. The four-digit course numbers are explanatory using the following guidelines: 1<sup>st</sup> number representing the year in the curriculum (1 through 4), the 2<sup>nd</sup> number is the term graded (1 = fall, 2 = spring) with a “5” indicating a year-long clinical course that is graded in the spring, the 3<sup>rd</sup>/4<sup>th</sup> numbers are typically sequential. All High Stakes Assessments courses end in “90”.

Other course-related information is provided. Course weight is in comparison to other UAB Dentistry courses, the contact hours is an approximate figure, and the grade method is either standard letter (A,B,C,F) or pass/fail (P/F).

A narrative of the curricular theme for each term is also furnished. UAB SOD has woven major themes throughout the 4-year curriculum including principles of communication, ethics, evidence based practice, special patient care, and core dental delivery skills as well as others. The first two dental years focus on preparing the student for the supervised delivery of dental care. Major time is devoted to the basic sciences with emphasis on integrating this knowledge into clinical care as well as the preclinical dentistry laboratory where students master the hands-on component of dental care. The final two dental years focus on preparing the student for the independent practice of dentistry.

### **D1 Fall Term**

The D1 fall term initiates the student to professional responsibility with courses in sociology and ethics. Major emphasis is on early clinical experiences, and the learner has a significant clinical component focusing on entry-level clinical skills including communication, assisting skills, medical findings and interpretation, infection control, and radiology. This is accomplished in a series of patient and small group-related experiences. The first term also introduces the fundamental basic science knowledge, including histology, biochemistry, immunology, microbiology, pathology, & pharmacology as it relates to dental care as well as evidence based dental care.

Preclinical laboratory experiences focus on dental anatomy, cariology, and operative dentistry.

### **D1 Spring Term**

The D1 spring term serves to build on the clinical dental knowledge with continuation of dental courses in anesthesia, emergencies, and periodontology. These clinical-related knowledge skills correspond with the basic science themes of neuroscience, anatomy, and the initiation of the systems curriculum. This also marks the start of the case-based courses that serve to integrate the basic science knowledge with the clinical practice of dentistry. The preclinical laboratory courses continue focus on the various aspects of operative dentistry.

### **D2 Fall Term**

The D2 fall term serves to strengthen the student's clinical dental and basic science knowledge with courses in development, genetics, occlusion, and the management and treatment of medically complex patients. Students continue in the case-based courses and conclude the basic science systems curriculum. Preclinical laboratory experiences progress to the area of fixed prosthodontics including the restoration of implants.

### **D2 Spring Term**

The D2 spring term offers students experiences that focus on preparation for supervised patient care. Courses in pathology, pediatric dentistry, periodontology, and surgery hone the developing clinical skills. Case-based exercises focus on the development of appropriate patient treatment. Students spend significant time in various clinics developing and practicing the skills needed for patient care. Preclinical laboratory focuses on the myriad of aspects of removable prosthodontics, including the use of implants for retention, and endodontics.

### **D3 Fall Term**

The D3 year has its major focus on patient care. Students work in treatment teams, each supervised by a general dentist and a prosthodontist where the delivery of comprehensive dental care is provided. Rotations in community clinics, emergency care, endodontics, geriatrics, hospital dentistry, orthodontics, pediatric dentistry, periodontology, prosthodontics, & treatment planning, ensure exposure to all aspects of dental care including advanced procedures and special patient populations. The evidence-based didactic curriculum is designed to offer companion courses to the clinical experiences.

### **D3 Spring Term**

The D3 spring term is truly a continuation of the fall term themes. Additional experiences in health promotion, community dentistry, and practice management are incorporated.

### **D4 Fall Term**

The fourth dental school year has its major focus on preparing the student for the independent practice of dentistry. Comprehensive patient care and supplemental rotations continue. Additional optional experiences in community clinics with a focus on at-risk populations are offered. Didactic courses concentrate on advanced techniques and are predominantly given in seminar format.

### **D4 Spring Term**

The final dental school term continues with emphasis on the skills needed for the independent practice of dentistry. While the High Stakes Assessment courses have various undertakings over the 4-year curriculum, these courses culminate with the completion of student portfolios in the areas of clinical dentistry, community service, ethics/professionalism, & scholarship. The clinical component concludes with the presentation of a capstone case to classmates and a faculty board of examiners.

## **D1 Year**

### **1110 Dentistry & Culture**

Course weight: 3    Contact hours: 36    Grade method: Standard letter

This course offers an introduction to the study of health and illness as a socio-cultural phenomenon. It focuses particularly on the social factors that influence dental health and healthcare. Social conditions are now understood to be fundamental causes of disease. As such, this course discusses some of the significant social ills that impact the health of society and its various subgroups. Sociologists with broad experience in the area of health-related sociology teach the course. The UAB Sociology Department is uniquely equipped to teach this course because it offers the only doctoral program in the country specifically in Medical Sociology.

### **1115 Ethics in Dentistry**

Course weight: 3    Contact hours: 27    Grade method: Standard letter

The primary objective of this course is to enable the student to address ethical issues related to the delivery and management of dental care. In recent years, practitioners in the health care professional have been called upon to carefully evaluate their roles as decision makers and to evaluate their decisions from an ethical perspective. Both the popular and professional journals have given much space to the ethical problems related to health care. While it is surely not the case that making ethical decisions is the exclusive domain of the philosopher, it is an assumption of this course that philosophy with its long history of the decision of ethical problems can make some contribution to the issues at hand. In order to develop skills in this area, we will examine some of the classical theories in philosophical ethics as well as commentators on the more specifically designed area of health care ethics and management.

### **1130 Dental Radiology**

Course weight: 2    Contact hours: 13    Grade method: Standard letter

The course introduces students to the fundamental knowledge and clinical skills necessary to properly conduct dental radiography procedures and interpretation necessary in the practice of dentistry.

### **1135 Entry-Level Clinical Skills**

Course weight: 4    Contact hours: 72    Grade method: Standard letter

This course is designed to introduce basic clinical, laboratory and radiology skills needed to treat patients in a comprehensive care dental environment. Emphasis is placed on effective use of infection control principles, knowledge of radiology principles and techniques, four-handed dentistry principles and skills, basic laboratory skills, knowledge of information technology and other essential clinical skills. Upon completion, a student should be able to perform basic clinical, radiology and laboratory procedures in a clinical dental setting.

### 1140 Evidence-Based Dentistry

Course weight: 3    Contact hours: 28    Grade method: Standard letter

The overall goal of this course is to provide the dental student with the necessary foundation for literature based learning by introducing basic concepts in epidemiology and biostatistics through a series of lectures and group projects. Critical thinking is emphasized.

### 1145 Oral Microbiology/Immunology

Course weight: 2    Contact hours: 14    Grade method: Standard letter

To provide the student with the basic knowledge of oral microbiology including bacteriology and immunology related their importance to the pathogenicity of dental caries and periodontal disease. Through didactic and laboratory components, emphasis will be placed on providing an understanding of the mechanisms involved in mediating oral health and disease.

### 1150 Fundamentals I

Course weight: 5    Contact hours: 80    Grade method: Standard letter

Fundamentals I is a multi-track, basic science course that primarily teaches the biochemical, genetic and immunological principles of human biology. The course begins with a general explanation of human histological composition (histology track) as a preliminary orientation for biochemistry (i.e., to indicate where biochemical reactions take place). The biochemistry track will demonstrate the principal kinds of molecules found in human cells and tissues and how these molecules function to carry out life processes and maintain cell and tissue structures. This track will reveal the nature of proteins, carbohydrates, lipids and nucleic acids. Within the subject of proteins, for example, will be included amino acid building blocks, peptide bonds, examples of proteins such as the collagens and hemoglobin as well as protein catalysts known as enzymes. There will also be included those metabolic processes that form and degrade classes of molecules and how metabolism itself acts as a mechanism for cellular energy. There is integrated within the biochemistry track, a physiological track of essential membrane function and transport. The course is continued with a description of how cells renew themselves (nucleic acid functions) and carry out integrated communication (hormone and neurotransmitter functions). A genetics track follows that shows the principles and functions of inheritance and its problems. The course is concluded with a thorough examination of immunology. This track includes both molecular and cellular mechanisms of immune functions such as: the immunoglobulins, antibody response, natural killer cells, T-cells and immune responses to infection.

### 1155 Fundamentals II

Course weight: 5    Contact hours: 74    Grade method: Standard letter

Fundamentals II introduces the disciplines of microbiology, histology, pathology and pharmacology. This course gives one the basic knowledge that is necessary to begin studies of the human organs systems. Microbiology studies the nature and characteristics of small organisms (such as bacteria and viruses) that invade human cells for their own gain. Lectures in histology will act as a preparatory introduction to pathology and enables one to determine the normal structures of tissues. Pathology describes the effects that are produced on human tissues when under attack by microorganisms and other destructive forces, as well as the abnormal growth and functions that may be brought about by genetic aberrations. Pharmacology involves the study and use of reagents and devices (drugs) to correct and control pathological processes in the body.

### 1160 Preclinical Dentistry D1a

Course weight: 9    Contact hours: 212    Grade method: Standard letter

Preclinical Dentistry D1a will provide the student with a foundational dental vocabulary. The student will gain foundational knowledge and skills on which additional, advanced dental knowledge and skills can be developed. The student will learn features of the human permanent and deciduous dentitions as well as specific features of individual teeth, tooth development and histology. Basic concepts of occlusion will be highlighted. The student will learn to wax the anatomic crown of various permanent teeth using dental instrumentation. While waxing, the student will learn to communicate using dental terminology and self-critique their wax tooth shape and form. Students will be able to look at an individual tooth and name the tooth using the universal system of naming human teeth.

### 1210 Case-Based Education 1

Course weight: 4    Contact hours: 84    Grade method: Standard letter

This course presents clinical scenarios in order to give D1 dental students simulated experience with various aspects of clinical dentistry and to provide an opportunity to apply basic science and foundational clinical concepts to the practice of dentistry.

### 1215 Dental Anesthesia

Course weight: 3    Contact hours: 22    Grade method: Standard letter

Introduce basic and advance concepts in pharmacology an armamentarium of local anesthetics and vasoconstrictors used in dentistry. Introduce basic and advanced concepts regarding anesthetic blocks used in dentistry and its associated anatomy. Introduce concepts and medications to control dental anxiety.

### 1220 Medical Emergencies

Course weight: 2    Contact hours: 12    Grade method: Standard letter

A didactic and laboratory course designed to teach basic techniques for handling medical emergencies in a dental office. An office team approach will be emphasized. Topics will include medical emergency prevention, preparation, and performance.

### 1225 Periodontology D1

Course weight: 4    Contact hours: 38    Grade method: Standard letter

To provide additional foundational knowledge for clinical periodontology and to aid students in developing the habits of lifelong learning that will allow them to continue to acquire knowledge and to thoughtfully apply it as they provide care for patients.

### 1250 Gross Anatomy

Course weight: 6    Contact hours: 92    Grade method: Standard letter

The principal goal of the course is for students to acquire a sound knowledge of the gross anatomy of the head and neck. This means that the student should be able to identify (in the lab) the important anatomical structures of the head and neck and be able to describe their functions and relationships. The clinical significance of the structures studied will be included to the extent that time permits. A list of learning objectives for each lecture is included in the Appendix of this syllabus.

### 1255 Neuroscience

Course weight: 6    Contact hours: 64    Grade method: Standard letter

The course provides the Dental Optometry & Graduate student with a balanced basic science view of the structure and function of the nervous system. The course is designed to prepare students for future clinical courses and provide them with a working range from molecular to behavioral. The inclusion of relevant clinical correlations (see CC on lecture schedule) is designed to facilitate the students' understanding of the function of the normal nervous system and to provide an introduction to the clinical neurosciences.

### 1260 Cardiovascular & Resp Systems

Course weight: 6    Contact hours: 58    Grade method: Standard letter

This is the first course in the systems based basic science curriculum. These courses introduce the learner to the following aspects of a body system: 1) Structure (anatomy, histology), 2) Function (physiology), 3) Pathology, & 4) Intervention (pharmacology, surgery, other treatment). Emphasis is placed on integrating this material with the practice of dentistry. This course covers the cardiovascular and respiratory systems.

### 1265 Preclinical Dentistry D1b

Course weight: 9    Contact hours: 296    Grade method: Standard letter

To provide each student with the fundamental knowledge for understanding the multifactorial nature of dental caries, caries prevention and treatment. To provide each student with the foundational restorative dentistry knowledge and skills on which

additional, advanced dental knowledge and skills can be developed. To provide each student with the foundational knowledge of occlusion on which additional, advanced dental knowledge and skills can be developed. To provide the student with basic knowledge, theory and understanding of operative nomenclature, instrumentation, materials and procedures through simulation and clinical experiences. To provide the student with basic knowledge of the clinical aspects of dental caries and its prevention and treatment in pediatric and adult patients. To provide the student with theory and technical proficiency in the preparation and restoration of structurally compromised teeth. To stimulate individual development in operative dentistry to the level of proficiency which permits progression into the clinical environment.

### **1270 Special Topics**

Course weight: 2    Contact hours: 60    Grade method: Pass/Fail

This course continues with the philosophy of the importance of providing early clinical experiences for developing dental students. Students will rotate through a number of different areas including: comprehensive care, geriatrics, pediatric dentistry, radiology/treatment planning, & sterilization. Students are tasked to experience/perform a variety of clinical exercises under the supervision of a myriad of faculty.

### **1290 High Stakes Assessments D1**

Course weight: 3    Contact hours: Self-study    Grade method: Pass/Fail

Our faculty consider four areas of student learning to be critically important. These are clinical care, service, research, and professionalism. These are categories of achievement that may be difficult to evaluate in the traditional classroom environment. To reinforce competency development in each of these areas, four high stakes assessments (HSAs) have been implemented, one in each category. Service HAS will teach students that service is valuable to the community, and rewarding to the servant. The Scholarly Activity HSA will teach students to think critically and to utilize literature to answer a clinical or research question. The professionalism HSA will document and enhance ethical development. The Clinical care HSA will assess a student's global competency and integrated knowledge of dentistry.

## **D2 Year**

### **2110 Case-Based Education 2**

Course weight: 4    Contact hours: 76    Grade method: Standard letter

This course presents clinical scenarios in order to give D2 dental students simulated experience with various aspects of clinical dentistry and to provide an opportunity to apply basic science and foundational clinical concepts to the practice of dentistry.

### **2120 Genetics**



Course weight: 2    Contact hours: 10    Grade method: Standard letter

This course provides a survey of major concepts in medical genetics that are relevant to the clinical practice of dentistry. Medical genetics encompasses diagnosis and treatment of genetic diseases, study of inheritance of diseases in families, mapping of disease genes to chromosomal locations, study of the molecular genetics and pathogenesis of inherited disorders, provision of genetic counseling for families and ethical issues surrounding individual and collective family genetic information. Human genetics has expanded exponentially in the past twenty years due to advances such as the human genome project and truly integrates basic and clinical sciences. The course will focus on dental genetic diseases and syndromes that alter the patterning and structure of the dentition. The dental dysmorphology associated with dental genetic diseases will be used to teach the normal and abnormal pathology and histology of tooth formation

### 2125 Growth & Development

Course weight: 3    Contact hours: 30    Grade method: Standard letter

The purpose of this course is to teach undergraduate dental students the fundamentals of growth and development as they relate to the practice of dentistry. As dentists, you will be expected to appropriately diagnose abnormal growth and development in your patients. The second part of this course will discuss cephalometric radiology, anatomical landmarks and cephalometry as it relates to orthodontic diagnosis as well as treatment objectives will be described. Clinical situations that illustrate the different concepts studied throughout the course will be presented in the last section.

### 2130 Occlusion

Course weight: 2    Contact hours: 14    Grade method: Standard letter

In this survey course, foundational knowledge is expanded upon the concepts of static and dynamic occlusion; neuromuscular control of mandibular movement; function of the temporomandibular joint and ligaments; functional movement in speech, swallowing, and chewing; development of occlusal theory; and the development and use of dental articulators, facebows, and jaw tracking instruments. Multi-disciplinary concepts of occlusion are presented related to attrition, abfraction, occlusal forces, wear; periodontal health and disease and traumatic occlusion; orthodontics; removable prosthodontics; operative dentistry; and fixed and implant prosthodontics. Malocclusion, occlusal dysfunction and parafunction including bruxism, and Temporomandibular Disorders are introduced.

### 2135 Special Patient Care

Course weight: 2    Contact hours: 18    Grade method: Standard letter

To teach and encourage dental students to provide care to those with special needs seeking care in the community where they practice.

## 2150 Renal System

Course weight: 4    Contact hours: 32    Grade method: Standard letter

This is a continuation of the systems based basic science curriculum. These courses introduce the learner to the following aspects of a body system: 1) Structure (anatomy, histology), 2) Function (physiology), 3) Pathology, & 4) Intervention (pharmacology, surgery, other treatment). Emphasis is placed on integrating this material with the practice of dentistry. This course builds on the previous knowledge of the cardiovascular and renal systems and covers the respiratory system.

## 2155 Musculoskeletal & GI Systems

Course weight: 6    Contact hours: 62    Grade method: Standard letter

This is a continuation of the systems based basic science curriculum. These courses introduce the learner to the following aspects of a body system: 1) Structure (anatomy, histology), 2) Function (physiology), 3) Pathology, & 4) Intervention (pharmacology, surgery, other treatment). Emphasis is placed on integrating this material with the practice of dentistry. This course builds on the previous knowledge of the CV/renal/respiratory systems and covers the musculoskeletal & gastrointestinal systems.

## 2160 Hematology & Endocrinology

Course weight: 5    Contact hours: 42    Grade method: Standard letter

This is a continuation of the systems based basic science curriculum. These courses introduce the learner to the following aspects of a body system: 1) Structure (anatomy, histology), 2) Function (physiology), 3) Pathology, & 4) Intervention (pharmacology, surgery, other treatment). Emphasis is placed on integrating this material with the practice of dentistry. This course builds on the previous knowledge of the CV/renal/respiratory/MS/GI systems and covers the hematologic & endocrine systems.

## 2165 Review of Systems

Course weight: 2    Contact hours: 78    Grade method: Pass/Fail

This course serves as a review of the basic science curriculum with emphasis on the systems material. Particular focus will be on preparation for the National Board Dental Examination Part I.

## 2170 PCD: Fixed Prosthodontics

Course weight: 9    Contact hours: 278    Grade method: Standard letter

The course is designed to provide the student with basic knowledge, theory, understanding and technical proficiency in single, extra-coronal tooth restorations and fixed replacement of missing teeth. The student should attain the necessary cognitive and affective qualities to permit a successful continuation in his/her training in the clinical domain so as to stimulate maximum individual development in the field of fixed prosthodontics. Emphasis is placed on tooth preparation, provisionalization, impression

making, and basic laboratory techniques employed in fixed prosthodontics. Students will also be exposed to basic dental implantology and dental materials.

### 2175 PCD: Fixed Pros Implants

Course weight: 3    Contact hours: 80    Grade method: Standard letter

To provide students with an overview of dental implant treatment options, diagnostic techniques, and restorations.

### 2210 Case-Based Education 3

Course weight: 3    Contact hours: 30    Grade method: Pass/Fail

This course provides an opportunity for students to interact in small groups and discuss dental science with a discussion facilitator. This class will be comprised of approximately six cases and two informational sessions. Each case will last two weeks. A few lectures will be given, but learning will predominantly occur via self-study and small-group interaction. Students are expected to compile information from a variety of sources to answer questions about each case, to contribute in a facilitator-assisted discussion, and to develop appropriate treatment plans.

### 2215 Communications D2

Course weight: 2    Contact hours: 18    Grade method: Pass/Fail

This course provides an opportunity for students to learn basic communication and interpersonal skills as related to both patients and dental team members. Each student will attend approximately 3 class lecture meetings and 3 small group meetings (labs). Out of class readings and exercises may be expected. Topics will cover non-verbal communication, patient interaction, and treatment plan presentation.

### 2217 Cultural Awareness D2

Course weight: 2    Contact hours: 14    Grade method: Pass/Fail

The course content is designed with the overall objectives: 1. Emphasize, illustrate and analyze how patient's culture, beliefs and norms impact treatment. 2. Enhance understanding of legal boundaries and providers responsibilities in the delivery of care. 3. Enhance the students understanding of cultural, various societal values and traditions that may impact the delivery of care, doctor-patient interactions and treatment outcomes. 4. Increase awareness of the challenges and mechanisms for providing services to special populations.

### 2218 Dental Coding

Course weight: 2    Contact hours: 12    Grade method: Standard letter

To develop an understanding of the appropriate application of the Code on Dental Procedures and Nomenclature (CDT Code) for reporting dental services in accordance with the Health Insurance Portability and Accountability Act (HIPAA).

## 2220 Geriatrics D2

Course weight: 2    Contact hours: 10    Grade method: Standard letter

To develop the students' understanding of the care of the complex older adult, the burden faced by the healthcare system due to the explosion of the aging population and how to address some of the needs of the elderly in relation to their oral health.

## 2225 Nutrition

Course weight: 2    Contact hours: 12    Grade method: Standard letter

This course is designed to provide the dental student with tools for understanding the relationship of nutrition to oral health and disease. In particular, the student will complete the course understanding: techniques for assessing the nutritional status of dental clients, nutrition requirements for optimal dental health, nutrition support techniques and products for dental patients with special dietary needs, and the dentist's role in nutrition counseling

## 2230 Oral Pathology D2

Course weight: 4    Contact hours: 52    Grade method: Standard letter

Oral pathology is a specialty of dentistry and pathology that deals with the nature, identification, and management of diseases affecting the oral & maxillofacial regions. This evidence-based introductory course will serve to introduce the student to the many facets of oral pathology.

## 2235 Oral Surgery D2

Course weight: 3    Contact hours: 16    Grade method: Standard letter

To introduce basic surgical principles and techniques in the field of Oral and Maxillofacial Surgery with special emphasis on simple and surgical extractions of teeth. The student will also understand issues associated with impacted teeth, preprosthetic surgery, biopsy technique and complications. Preoperative assessment and post-operative management will also be emphasized.

## 2240 Pediatric Dentistry D2

Course weight: 2    Contact hours: 9    Grade method: Standard letter

Introduction to Pediatric Dentistry provides the foundational knowledge needed to examine, diagnose and prevent dental conditions of children in the transitional dentition.

## 2245 Periodontology D2

Course weight: 3    Contact hours: 14    Grade method: Standard letter

To gather knowledge and gain exposure in the diagnosis and treatment of periodontal diseases in the clinical setting

## 2247 Principles of Medicine

Course weight: 2    Contact hours: 12    Grade method: Standard letter

The course goals are for each student to become familiar with basic and advanced skills for performing a medical history and physical exam and for each student to become familiar with management of common medical problems that impact our patient population.

## 2250 D2 Clinical Integration I

Course weight: 5    Contact hours: 220    Grade method: Pass/Fail

This patient-centered course is designed to introduce the progressing D2 student to the SOD clinics. This serves to further enhance the clinical experience and to promote a “hands-on” non-simulated approach to procedures required in the clinic including Salud entry, MiPacs usage, medical history review, as well as a myriad of others. Each D2 student has been placed into a Comprehensive Care Clinic treatment group. This serves to facilitate the vertically-integrated approach to patient care. The D2 student will be expected to function as an assistant, hygienist, and student dentist. The D2 student will shadow a D3/D4 student in their appointed Comprehensive Care group. A variety of assisting and patient care skills are required to be performed. In addition, there will be additional clinical experience with dental prophylaxis with the opportunity to perform this procedure on scheduled patients. A rotation through treatment planning is also scheduled, which serves to reinforce the radiology techniques and treatment planning skills learned in other courses. There will also be a comprehensive review of operative dentistry exercises scheduled in the PCD lab.

## 2252 D2 Clinical Integration II

Course weight: 3    Contact hours: 120    Grade method: Pass/Fail

This patient-centered course is designed to introduce the progressing D2 student to the SOD clinics. This serves to further enhance the clinical experience. Students will be exposed to direct patient care through the denture demonstration, further refinement of clinical skills through laboratory simulation, and Comprehensive Care Clinic exposure and orientation. There will also be a comprehensive review of prosthodontic dentistry exercises scheduled in the PCD lab.

## 2255 PCD: Complete Dentures

Course weight: 4    Contact hours: 71    Grade method: Standard letter

The course goals for this course are to develop the skill and dexterity necessary to construct a set of complete dentures for a simulated edentulous patient, to provide the student a general philosophy of treatment specific to the edentulous patients, to provide the student the basic knowledge of the anatomy and physiology specific to the edentulous patient, to provide the student basic knowledge of dental materials used in both clinical and laboratory phases of complete denture prosthodontics, and to provide the student with sufficient laboratory experience in complete denture prosthodontics to

allow her/him to interact with dental technicians in a knowledgeable and empathic manner.

### **2260 PCD: RPD**

Course weight: 4    Contact hours: 71    Grade method: Standard letter

The course goals for this course are to introduce the student to the basic fundamentals of treatment of partially edentulous patients, to familiarize the student with the basic clinical and laboratory skills involved in the fabrication of removable partial prostheses, to furnish the student with standards and criteria to assess the quality of every individual procedure used to reach the treatment goal, and to impart the knowledge necessary to correlate basic physiology, anatomy, and biomaterials into a philosophy of removable partial denture treatment.

### **2265 PCD: Rem Pros Implants**

Course weight: 1    Contact hours: 18    Grade method: Pass/Fail

To provide students with an overview of dental implant treatment options, diagnostic techniques, and restorations.

### **2270 PCD: Endodontics**

Course weight: 5    Contact hours: 135    Grade method: Standard letter

To introduce the student to the basic aspects of endodontic principles, theory, and practice.

### **2290 High Stakes Assessments D2**

Course weight: 3    Contact hours: Self-study    Grade method: Pass/Fail

Our faculty consider four areas of student learning to be critically important. These are clinical care, service, research, and professionalism. These are categories of achievement that may be difficult to evaluate in the traditional classroom environment. To reinforce competency development in each of these areas, four high stakes assessments (HSAs) have been implemented, one in each category. Service HSA will teach students that service is valuable to the community, and rewarding to the servant. The Scholarly Activity HSA will teach students to think critically and to utilize literature to answer a clinical or research question. The professionalism HSA will document and enhance ethical development. The Clinical care HSA will assess a student's global competency and integrated knowledge of dentistry.

## **D3 Year**

### **3110 Complete Dentures D3**

Course weight: 3    Contact hours: 21    Grade method: Standard letter

The course goals are to provide the student a general philosophy of treatment specific to the edentulous patients, to provide the student a review of the basic knowledge of

the anatomy and physiology specific to the edentulous patients, and to provide the student with an insight into the proper sequence of treatment specific to edentulous patients.

### **3115 Endodontics D3a**

Course weight: 3    Contact hours: 20    Grade method: Standard letter

To prepare the student to prevent, diagnose, manage and/or treat pulpal and periradicular pathoses.

### **3120 Fixed Prosthodontics D3a**

Course weight: 3    Contact hours: 21    Grade method: Standard letter

To develop the students' understanding and competency in treating uncomplicated fixed prosthodontic patients. This includes proficiency in treatment planning, clinical and technical procedures needed for satisfactory restoration of single teeth, and the replacement of missing teeth with less complicated fixed prosthodontic restorations. In addition, the student should understand the importance of the interrelationship of other dental and medical specialties with fixed prosthodontics and how to facilitate harmonious interactions among the disciplines. This course also will focus on troubleshooting common mistakes and problems encountered with Fixed Prosthodontics by presenting the complete treatment of a Fixed Prosthodontics patient from Diagnosis and Treatment Planning to Completion and Follow-up Care. Focused topics will be presented as needed to accommodate the progress of the class and facilitate review and specific areas of interest.

### **3125 Implantology D3**

Course weight: 3    Contact hours: 20    Grade method: Standard letter

To provide students with an overview of advanced dental implant treatment options and restorations, surgical placement, ridge augmentation and maintenance.

### **3130 Operative Dentistry D3a**

Course weight: 3    Contact hours: 19    Grade method: Standard letter

The overall objective of both disciplines and the faculty is to properly educate the dental student on the importance of caries control and to provide him/her with the skills to restore teeth to normal oral health function. Educational efforts are concentrated in providing oral health care and to educate about its importance for total well the total well-being of a diverse patient population within our state. The didactic teaching of Operative Dentistry has the goal of preparing the student to provide the restoration of tooth form, function and esthetics having the comprehensive care of the patient as its ultimate goal. Students will be trained to further their skills in diagnosis, design of a treatment plan and treatment of cases related to restorative dentistry including the interaction with other dental disciplines.

### 3135 Oral Medicine & Radiology

Course weight: 3    Contact hours: 18    Grade method: Standard letter

This course serves to enhance student understanding of the diagnostic process. Emphasis will be on clinical and radiographic diagnosis, treatment, and proper management of patients including the medically compromised.

### 3140 Orthodontics D3

Course weight: 3    Contact hours: 20    Grade method: Standard letter

The goals of the D3 didactic lecture series is to provide the student with information relative to the etiology of malocclusion, normal and aberrant development of the occlusion and related temporomandibular aspects and significance in orthodontics. Objectives also include an understanding of biomechanics of orthodontic forces and histophysiology of tooth movement. The student will understand treatment planning strategies for patients from the primary dentition to adulthood as well as gain an understanding of removable and fixed orthodontic mechanotherapy. The role of Orthodontics in multidisciplinary dental care will be presented.

### 3145 Pediatric Dentistry D3a

Course weight: 3    Contact hours: 18    Grade method: Standard letter

Pediatric Dentistry D3a provides the foundational knowledge needed to examine, diagnose and prevent dental conditions of children in the transitional dentition.

### 3150 Periodontology D3

Course weight: 3    Contact hours: 17    Grade method: Pass/Fail

To help students in developing the habits of lifelong learning that will allow them to continue to acquire knowledge and to thoughtfully apply it as they provide care for patients. To further examine the evidence base for clinical decisions in periodontology and implantology.

### 3155 Removable Partial Dentures D3

Course weight: 3    Contact hours: 21    Grade method: Standard letter

The course goals are to provide the student with an opportunity to develop technical and clinical skills, competency and judgment in the discipline of removable partial dentures to a level suitable for those practicing removable partial dentures in a general dental practice, to provide the student with basic diagnostic and treatment planning skills appropriate for removable partial dentures, to prepare the student for interaction with other dental and medical specialist to achieve a high level of patient comprehensive care, and to prepare the student for interaction with dental technicians and dental laboratories in a coordinated and professional approach to the design and fabrication of prescribed prostheses.



### **3520a Comprehensive Care Clinic D3a**

Course weight: 6    Contact hours: Varies    Grade method: Standard letter

The philosophy of the Comprehensive Care Program is to train dental students to provide excellence in comprehensive dental care for their patients in a setting that emulates private practice. Patients are assigned to treatment teams for comprehensive dental care. Dental students trained in the Comprehensive Care Clinic are to exceed competency in all disciplines and develop a well-rounded global understanding of modern comprehensive dental care.

### **3210 Adv Topics in Maxillofacial**

Course weight: 3    Contact hours: 20    Grade method: Standard letter

To introduce and familiarize the student with the advanced scope of oral and maxillofacial surgery.

### **3215 Communications D3**

Course weight: 2    Contact hours: 17    Grade method: Pass/Fail

This course provides an opportunity for students to learn basic communication and interpersonal skills as related to both patients and dental team members. Each student will attend approximately 4 class lecture meetings and 3 small group meetings (labs). Out of class readings and exercises may be expected. Topics will cover conflict resolution, handling difficult conversations, and team building.

### **3220 Community Dentistry**

Course weight: 2    Contact hours: 11    Grade method: Standard letter

This course is an introduction to community and public health dentistry. It will cover a number of subjects related to public health, public policy and community dentistry. These subjects will range from public policy and legislation concerning the dental profession, to financing models for dental services for patients on public assistance programs. It will also include a review of practice-based research and why you should consider continuing to remain a life-long learner once in practice. It will include as well an overview of the science of population studies.

### **3225 Endodontics D3b**

Course weight: 2    Contact hours: 10    Grade method: Standard letter

To prepare the student to prevent, diagnose, manage and/or treat pulpal and periradicular pathoses.

### **3230 Fixed Prosthodontics D3b**

Course weight: 3    Contact hours: 21    Grade method: Standard letter

To develop the students' understanding and competency in treating uncomplicated fixed prosthodontic patients. This includes proficiency in treatment planning, clinical

and technical procedures needed for satisfactory restoration of single teeth, and the replacement of missing teeth with less complicated fixed prosthodontic restorations. In addition, the student should understand the importance of the interrelationship of other dental and medical specialties with fixed prosthodontics and how to facilitate harmonious interactions among the disciplines. This course also will focus on troubleshooting common mistakes and problems encountered with Fixed Prosthodontics by presenting the complete treatment of a Fixed Prosthodontics patient from Diagnosis and Treatment Planning to Completion and Follow-up Care. Focused topics will be presented as needed to accommodate the progress of the class and facilitate review and specific areas of interest.

### **3235 Health Promotion/Non-Surg Txt**

Course weight: 3    Contact hours: 20    Grade method: Pass/Fail

This course is designed to emphasize health issues, preventive methods, techniques and materials to enable dental students to assemble a PowerPoint presentation on a elected area of oral health promotion. These presentations may be given to various audiences- lay audiences, health care providers, or other dentists. All presentations will be shared with other class members to provide the recent dental graduates presentations that can be delivered to nursing homes, schools, office staff and other lay or professional audiences as a means to increase public awareness of oral health issues.

### **3240 Introduction to TMD**

Course weight: 3    Contact hours: 21    Grade method: Standard letter

This introductory course presents foundational knowledge on Temporomandibular Disorders. Topic areas includes the functional anatomy of the temporomandibular joints, muscles of mastication, and the cervical anatomic structures; epidemiology, demographics, and sub-types of TMDs; screening patients for TMD and diagnosis of TMD by history and clinical examination, imaging, and psychological evaluation; management by non-invasive techniques with emphasis on physical therapy, pharmacotherapeutics, occlusal analysis and occlusal device therapy; management by invasive techniques such as occlusal equilibration, Prosthodontic treatment and surgical treatment. The role of occlusion with specific TMDs is presented in the context of the multifactorial etiology of TMD

### **3245 Operative Dentistry D3b**

Course weight: 3    Contact hours: 22    Grade method: Standard letter

The overall objective of both disciplines and the faculty is to properly educate the dental student on the importance of caries control and to provide him/her with the skills to restore teeth to normal oral health function. Educational efforts are concentrated in providing oral health care and to educate about its importance for total well the total well-being of a diverse patient population within our state. The didactic teaching of Operative Dentistry has the goal of preparing the student to provide the restoration of tooth form, function and esthetics having the comprehensive care of the patient as its

ultimate goal. Students will be trained to further their skills in diagnosis, design of a treatment plan and treatment of cases related to restorative dentistry including the interaction with other dental disciplines.

### 3250 Oral Pathology D3

Course weight: 3 Contact hours: 22 Grade method: Standard letter

To provide an integrated approach including lectures, clinical case studies, and other opportunities designed to facilitate students in developing their knowledge of oral pathology. To provide the student opportunities to develop basic diagnostic skills and treatment planning skills to achieve a high level of comprehensive patient care in the clinical practice of dentistry.

### 3255 Pediatric Dentistry D3b

Course weight: 1 Contact hours: 8 Grade method: Pass/Fail

This course will present the topics of Infant Oral Health, Space Maintenance and Dental Trauma to the students. The course will utilize limited traditional lecture to supplement active learning as students are challenged to apply key concepts in patient centered case vignettes.

### 3260 Practice Management D3

Course weight: 3 Contact hours: 22 Grade method: Pass/Fail

To introduce the student to various entities involved in practice management and choices of practice models.

### 3290 High Stakes Assessments D3

Course weight: 3 Contact hours: Self-study Grade method: Pass/Fail

Our faculty consider four areas of student learning to be critically important. These are clinical care, service, research, and professionalism. These are categories of achievement that may be difficult to evaluate in the traditional classroom environment. To reinforce competency development in each of these areas, four high stakes assessments (HSAs) have been implemented, one in each category. Service HAS will teach students that service is valuable to the community, and rewarding to the servant. The Scholarly Activity HSA will teach students to think critically and to utilize literature to answer a clinical or research question. The professionalism HSA will document and enhance ethical development. The Clinical care HSA will assess a student's global competency and integrated knowledge of dentistry.

### 3510 Community Service Rotations D3

Course weight: 2 Contact hours: Varies Grade method: Pass/Fail

The program provides the opportunity for students to have a community-based experience. It also provides an opportunity for students to improve clinical skills, learn about different delivery practices and materials, increase in self confidence, provide

needed services to low-income and special needs patients and thus have a better understanding of the needs of low-income and more diverse populations in our state. It is important for students to be exposed to the needs of these diverse populations in the communities where they live to gain a better understanding of the issues and barriers they face every day. The expected outcome of this experience is for the student to have a broader view of the overall communities where they will be serving as dental providers upon graduation.

### **3515 Complete Pros Clinic D3**

Course weight: 3    Contact hours: Varies    Grade method: Standard letter

While comprehensive care of all your patients should be your ultimate goal, it is the specific responsibility of our discipline to help each student achieve a level of competence in the area of prosthodontics so that he/she can provide a service that is clinically acceptable. In order to meet this objective, we feel that it is necessary for each student to perform a minimal number of clinical and laboratory procedures for various types of restorations.

### **3520b Comprehensive Care Clinic D3b**

Course weight: 6    Contact hours: Varies    Grade method: Standard letter

The philosophy of the Comprehensive Care Program is to train dental students to provide excellence in comprehensive dental care for their patients in a setting that emulates private practice. Patients are assigned to treatment teams for comprehensive dental care. Dental students trained in the Comprehensive Care Clinic are to exceed competency in all disciplines and develop a well-rounded global understanding of modern comprehensive dental care.

### **3525 Endodontic Clinic D3**

Course weight: 3    Contact hours: Varies    Grade method: Standard letter

To provide clinical experiences which will prepare the student to prevent, diagnose, and manage pulpal and periradicular pathoses, and treat cases of low to moderate complexity.

### **3530 Fixed Pros Clinic D3**

Course weight: 6    Contact hours: Varies    Grade method: Standard letter

To develop the students' understanding and competency in treating uncomplicated fixed prosthodontic patients. This includes proficiency in treatment planning, clinical and technical procedures needed for satisfactory restoration of single teeth, and the replacement of missing teeth with less complicated fixed prosthodontic restorations. In addition, the student should understand the importance of the interrelationship of other dental and medical specialties with fixed prosthodontics and how to facilitate harmonious interactions among the disciplines.

### 3535 Limited Care D3

Course weight: 4    Contact hours: Varies    Grade method: Standard letter

Students attain through direct clinical experience the ability to examine, test and diagnose urgent care patients, and obtain informed consent as they develop a plan for treatment to address the patient's chief complaint.

### 3540 Operative Dentistry Clinic D3

Course weight: 6    Contact hours: Varies    Grade method: Standard letter

The overall objective of both disciplines and the faculty is to properly educate the dental student on the importance of caries control and to provide him/her with the skills to restore teeth to normal oral health function. Educational efforts are concentrated in providing oral health care and to educate about its importance for total well the total well being of a diverse patient population within our state. The didactic and clinical teaching of Operative Dentistry have the goal of preparing the student to provide the restoration of tooth form, function and esthetics having the comprehensive care of the patient as its ultimate goal. Students will be trained to further their skills in diagnosis, design of a treatment plan and treatment of cases related to Restorative Dentistry including the interaction with other dental disciplines.

### 3545 Oral Surgery Clinic D3

Course weight: 3    Contact hours: Varies    Grade method: Standard letter

All students to become proficient in patient communication, evaluation, review of systems, physical examination, and basic dentoalveolar surgery. Special emphasis will be placed upon case presentation to faculty, pharmacology review, anxiety and pain control, and sterile (aseptic) technique.

### 3550 Orthodontics Clinic D3

Course weight: 1    Contact hours: Varies    Grade method: Pass/Fail

The goals of this course are to teach students to recognize and diagnose all classifications of malocclusions, and to develop a treatment plan. Students will be exposed to the mechanics of treatment for a wide variety of orthodontic procedures. Students will also learn how to manage orthodontic emergencies in the dental office.

### 3555 Partial Pros Clinic D3

Course weight: 3    Contact hours: Varies    Grade method: Standard letter

The educational objectives for teaching predoctoral removable prosthodontics in dental education provide a general description of the expected level of the student's capabilities when he/she finishes the program. The curriculum in prosthodontics will be comprised of appropriate didactic, preclinical, and clinical experiences and will develop diagnostic and treatment skills to enable the student to progress to the competency based comprehensive care senior year program. The following education objectives

delineate the scope of an acceptable experience for dental students in removable prosthodontics.

### **3560 Pediatric Dentistry Clinic D3**

Course weight: 3    Contact hours: Varies    Grade method: Standard letter

Pediatric Dentistry Clinic D3 is designed to introduce students to the examination, diagnosis and treatment planning of pediatric patients. It also provides students with patient care experiences designed to develop proficiency in preventive care for pediatric patients. Finally, it also provides students their initial exposure to providing dental care for the special needs patient population.

### **3565 Periodontology Clinic D3**

Course weight: 3    Contact hours: Varies    Grade method: Standard letter

The overall goals of undergraduate education within the Department of Periodontology are interconnected and integral to the success of entry-level dental professionals. Entry-level general dentists must demonstrate comprehensive knowledge concerning: the pathogenesis of periodontal diseases, the biologic rationale for periodontal therapy, and the necessary clinical skills to evaluate, diagnose, and appropriately treat the most prevalent periodontal diseases as a cornerstone of comprehensive dental care. Of primary importance in this effort is the proper identification and diagnosis of periodontal pathology, the development of a treatment plan to address periodontal pathology, the prevention of periodontal diseases and the attainment and maintenance of periodontal health.

### **3570 Specialty Clinic Rotations D3**

Course weight: 2    Contact hours: Varies    Grade method: Pass/Fail

The dental student will be exposed to a variety of advanced clinical experiences in this course. Students will rotate to graduate prosthodontics, hospital dentistry including participation in head & neck tumor board, and otolaryngology.

## **D4 Year**

### **4115 Current Topics D4a**

Course weight: 1    Contact hours: 7    Grade method: Pass/Fail

This course is designed to provide students with current and state-of-the-art information in clinical dentistry. Emphasis is placed on dental ergonomics, dental implantology, Spanish for the dental office, optimizing laboratory communication, advanced topics in fixed and removable prosthodontics for the general dental office, and oral medicine for the dental office.

### **4120 Endodontics D4**

Course weight: 2    Contact hours: 13    Grade method: Standard letter

The overall goal of the course is to acquaint all senior dental students with an appreciation for the endodontic considerations for management/treatment of molar teeth.

#### 4125 Fixed Prosthodontics D4

Course weight: 3    Contact hours: 14    Grade method: Standard letter

The senior fixed prosthodontic lectures will acquaint the student with advanced topics in fixed prosthodontics including all ceramic restorations, increased vertical dimension cases, articulator selection, and pulp biology of prepared teeth. The student will be presented with the material that will assist them in treatment choices for these more advanced fixed prosthodontic cases.

#### 4130 Geriatrics D4

Course weight: 2    Contact hours: 10    Grade method: Standard letter

To build upon and further develop the students' understanding of the care of the complex older adult as presented in the D2 course. The course is designed to provide additional knowledge and promote positive attitudes in the care of the complex older adult that complement the skills being developed by 4<sup>th</sup> year dental students in their comprehensive general dentistry and outreach rotations. Assessment and clinical management strategies for the care of the older patient with a broad range of complex health conditions, physical and mental disorders, as well as, psycho-social concerns will be discussed in the context of knowledge already developed in oral medicine and other related disciplines. Emphasis will be placed on the most common difficulties experienced by the aging adult population.

#### 4135 Implantology D4

Course weight: 3    Contact hours: 20    Grade method: Pass/Fail

The course goals and objectives are to apply critical thinking in diagnosis and treatment planning for implant therapies for fixed and removable prosthodontics, introduce current topics and controversies in dental implantology and provide resources to the graduating senior to make sound decisions regarding implant systems.

#### 4140 Practice Management D4

Course weight: 3    Contact hours: 18    Grade method: Pass/Fail

To introduce the student to various entities involved in practice management and choices of practice models.

#### 4145 Removable Prosthodontics D4

Course weight: 3    Contact hours: 20    Grade method: Standard letter

The course goals are to provide the student a general philosophy of treatment specific to the edentulous and partially edentulous patients, provide the student a review of the basic knowledge of the anatomy and physiology specific to the edentulous and partially

edentulous patients, and provide the student with an insight into the proper sequence of treatment specific to edentulous and partially edentulous patients.

#### **4165 Review of Dentistry**

Course weight: 3    Contact hours: 22    Grade method: Pass/Fail

This course serves as a review for the National Board Dental Examination Part II. Emphasis will be placed on endodontology, oral pathology, periodontology, radiology, with special attention to pharmacology.

#### **4520a Comprehensive Care Clinic D4a**

Course weight: 6    Contact hours: Varies    Grade method: Standard letter

The philosophy of the Comprehensive Care Program is to train dental students to provide excellence in comprehensive dental care for their patients in a setting that emulates private practice. Patients are assigned to treatment teams for comprehensive dental care. Dental students trained in the Comprehensive Care Clinic are to exceed competency in all disciplines and develop a well-rounded global understanding of modern comprehensive dental care.

#### **4210 Advanced Biomaterials**

Course weight: 3    Contact hours: 18    Grade method: Standard letter

This course is designed to explore new restorative materials and alternate sometimes controversial restorative dentistry techniques. Through a series of lectures in multiple topics, students will become aware of successful predictable materials and restorative techniques. This update will bridge the gap from materials used in the dental school environment provide current evaluations of single bottle universal adhesives, amalgam longevity, current preventive materials, anterior composite resin layering techniques, bulk placement and restoration of posterior composite resin restorations, fluoride releasing materials, cements, ceramics, digital and conventional impression materials, provisional restorations and restoring endodontically treated teeth. Students will understand the composition, properties, and optimal manipulation of dental materials used in the fabrication of direct and indirect restorations.

#### **4215 Current Topics D4b**

Course weight: 2    Contact hours: 10    Grade method: Pass/Fail

This course is designed to provide students with current and state-of-the-art information in clinical dentistry. Emphasis is placed on antibiotics, dental ceramics, staff relations, dental lasers, "meth mouth", and athletic mouthguards.

#### **4280 Communications D4**

Course weight: 2    Contact hours: 7    Grade method: Pass/Fail

This is the fourth and final course in the communications curriculum. The overall goal of this course is for students to develop practice management and leadership skills. In



addition, students must demonstrate appropriate interpersonal and communication skills with a Limited Care Clinic patient

#### 4290 High Stakes Assessments D4

Course weight: 3    Contact hours: 37    Grade method: Standard letter

Our faculty consider four areas of student learning to be critically important. These are clinical care, service, research, and professionalism. These are categories of achievement that may be difficult to evaluate in the traditional classroom environment. To reinforce competency development in each of these areas, four high stakes assessments (HSAs) have been implemented, one in each category. Service HAS will teach students that service is valuable to the community, and rewarding to the servant. The Scholarly Activity HSA will teach students to think critically and to utilize literature to answer a clinical or research question. The professionalism HSA will document and enhance ethical development. The Clinical care HSA will assess a student's global competency and integrated knowledge of dentistry.

#### 4510 Community Service Rotations D4

Course weight: 2    Contact hours: Varies    Grade method: Pass/Fail

The program provides the opportunity for students to have a community-based experience. It also provides an opportunity for students to improve clinical skills, learn about different delivery practices and materials, increase in self confidence, provide needed services to low-income and special needs patients and thus have a better understanding of the needs of low-income and more diverse populations in our state. It is important for students to be exposed to the needs of these diverse populations in the communities where they live to gain a better understanding of the issues and barriers they face every day. The expected outcome of this experience is for the student to have a broader view of the overall communities where they will be serving as dental providers upon graduation. The goals of this program are now part of dental school accreditation and have been included in the most recent update of CODA standards.

#### 4515 Complete Pros Clinic D4

Course weight: 6    Contact hours: Varies    Grade method: Standard letter

A stated goal is to provide a dental learning experience that enables our new graduates to restore partial or complete edentulous patients with uncomplicated fixed or removable prosthodontics restorations.

#### 4520b Comprehensive Care Clinic D4b

Course weight: 6    Contact hours: Varies    Grade method: Standard letter

The philosophy of the Comprehensive Care Program is to train dental students to provide excellence in comprehensive dental care for their patients in a setting that emulates private practice. Patients are assigned to treatment teams for comprehensive dental care. Dental students trained in the Comprehensive Care Clinic are to exceed

competency in all disciplines and develop a well-rounded global understanding of modern comprehensive dental care.

#### 4525 Endodontics Clinic D4

Course weight: 3 Contact hours: Varies Grade method: Standard letter

The course will be presented in an open discussion format. The course will be an elective that allows hands-on application of principles taught in the pre-clinical course, as well as those advanced concepts from this course. Use of modern technology will be encouraged, including the indications and contraindications.

#### 4525e Endodontics D4 Elective

Course weight: 0 Contact hours: 12 Grade method: Standard letter

Students with an interest in exposure to advanced endodontic procedures such as molar root canal therapy can take this elective course. The didactic portion builds on the basic endodontic knowledge as it applies to multi-rooted teeth. Successful completion of this course and bench top exercises will credential students for the ability to apply these procedures in direct patient care.

#### 4530 Fixed Prosthodontics Clinic D4

Course weight: 6 Contact hours: Varies Grade method: Standard letter

To develop the students' understanding and competency in treating uncomplicated fixed prosthodontic patients. This includes proficiency in treatment planning, clinical and technical procedures needed for satisfactory restoration of single teeth, and the replacement of missing teeth with less complicated Fixed Prosthodontic restorations. In addition, the student should understand the multidisciplinary approach to treat a patient alone with Fixed Prosthodontics.

#### 4535 Limited Care D4

Course weight: 4 Contact hours: Varies Grade method: Standard letter

Students attain through direct clinical experience the ability to examine, test and diagnose urgent care patients, and obtain informed consent as they develop a plan for treatment to address the patient's chief complaint.

#### 4540 Operative Dentistry Clinic D4

Course weight: 6 Contact hours: Varies Grade method: Standard letter

The overall objective of both disciplines and the faculty is to properly educate the dental student on the importance of caries control and to provide him/her with the skills to restore teeth to normal oral health function. Educational efforts are concentrated in providing oral health care and to educate about its importance for total well the total well being of a diverse patient population within our state. The didactic and clinical teaching of Operative Dentistry have the goal of preparing the student to provide the restoration of tooth form, function and esthetics having the comprehensive care of the

patient as its ultimate goal. Students will be trained to further their skills in diagnosis, design of a treatment plan and treatment of cases related to Restorative Dentistry including the interaction with other dental disciplines.

#### 4545 Oral Surgery Clinic D4

Course weight: 3 Contact hours: Varies Grade method: Standard letter

All students to become proficient in patient communication, evaluation, review of systems, physical examination, and basic dentoalveolar surgery, case presentation to faculty, pharmacology review, anxiety and pain control, and sterile (aseptic) technique, and good clinical application and understanding to relevant surgical anatomy, physiology and pharmacology chemistry.

#### 4550 Orthodontic Clinic D4

Course weight: 1 Contact hours: Varies Grade method: Pass/Fail

The goals of this course are to teach students to recognize and diagnose all classifications of malocclusions and develop a problem-list and a treatment plan. This course shall be a continuation of Orthodontics Clinic I. Students will be exposed to the mechanics of treatment for a wide variety of orthodontic procedures. Students will also learn how to manage orthodontic emergencies in the dental office.

#### 4555 Partial Pros Clinic D4

Course weight: 6 Contact hours: Varies Grade method: Standard letter

The educational objectives for teaching pre-doctoral Removable Partial Denture provide an expected level of competency for the new graduates. The curriculum in prosthodontics is comprised of the appropriate didactic, pre-clinical and clinical experiences. The following educational objectives delineate the scope of an acceptable experience for dentist students in Removable Partial Denture.

#### 4560 Pediatric Dentistry Clinic D4

Course weight: 3 Contact hours: Varies Grade method: Standard letter

Pediatric Dentistry Clinic D4 provides students advanced experiences with restorative and preventive dentistry in the pediatric and special needs populations. Patient centered clinical experiences build on the preventive experiences received in Pediatric Dentistry Clinic D3 and expand into operative dentistry, pulp therapy, implementation of behavior guidance techniques, and management of the developing occlusion. These patient care experiences are designed to develop proficiency in restorative care for pediatric patients. Finally, students will also receive advanced experience with providing dental care for the special needs patient population.

#### 4565 Periodontology Clinic D4

Course weight: 3 Contact hours: Varies Grade method: Standard letter

The overall goals of undergraduate education within the Department of Periodontology are interconnected and integral to the success of entry-level dental professionals. Entry-level general dentists must demonstrate comprehensive knowledge concerning: the pathogenesis of periodontal diseases; the biologic rationale for periodontal therapy; and the necessary clinical skills to evaluate, diagnose, and appropriately treat the most prevalent periodontal diseases as a cornerstone of comprehensive dental care. Of primary importance in this effort is the proper identification and diagnosis of periodontal pathology, the development of a treatment plan to address periodontal pathology, the prevention of periodontal diseases and the attainment and maintenance of periodontal health.

#### 4570 Specialty Clinic Rotations D4

Course weight: 1    Contact hours: Varies    Grade method: Pass/Fail

The dental student will be exposed to a variety of advanced clinical experiences in this course. Students will rotate to graduate prosthodontics, hospital dentistry including participation in head & neck tumor board, and otolaryngology. An advanced human cadaver dissection is also included.