DENTAL - DENTAL MEDICINE (DENT)

DENT 5001 Foundation Sciences I
Fountation Sciences I is aimed at providing students with a thorough understanding of the basic principles of molecular biology and general biochemistry; the biochemical concepts underlying healthy metabolism, nutrition and selected disease states and comprehension at an advanced level of selected topics in cell biology
2.5-6.5 Credit Hours

DENT 5011 Foundation Sciences II
The course is structured to provide basic information about the evolutionaryre lationship, structure, physiology and molercular biology of the prokaryotic cells and viruses, and the basic mechanisms of immunology in relation to oral health. Emphasis will also be placed on how oral mircoorganisms participate in plaque/biofilm formation, caries and periodontal disease. Primary objectives related to the clinical setting include an understanding of the basis of the selective inhibition of antibiotics and the development of resistance, understanding the basis of seriological tests and immunization and interpretation of radiographic evidence for caries and periodontal disease
0-6.5 Credit Hours

DENT 5012 Host Defense, Host Response and Pathology
TBD
5-8 Credit Hours

DENT 5022 Foundation Sciences IIi
Foundation Sciences III is the first course in the curriculum that focuses on tthe underlying cellular and molecular basis of disease and is a critical component of a larger subject commonly known as Pathology. In its simplest terms, Pathology is the study of the structural, biochemical and functional abnormalities that develop within cells, tissues and organs resulting in disease.The disease process forms the core of pathology and includes: etiology, pathogenesis,lesions and clinical manifestations. Traditionally, Pathology is divided into general and systemic pathology. FSIII is the first of two courses (the other being FSIV) that collectively comprise the topic of general pathology.Specifically, FSIII will focus on: (1) the reactions of cells and tissues to abnormal stimuli leading to either adaption or cell injury and (2) pathogenic mechanisms responsible for disease development.
2.25-6.25 Credit Hours

DENT 5031 Cell and Molecular Basis of Health and Disease
Cell and Molecular Basis of Health and Disease
6.5-8.5 Credit Hours

DENT 5032 Foundation Sciences Iv
This seriesof lectures will present relevant and important diseases and their treatments. We will explore the mechanisms used by bacteria to infect cells and present two major classes of bacteria, the Streptococcus and Staphylococcus. Wewill introduce odontogenic infections important to the oral cavity. Gastrointestinal infections, sexually transmitted diseases, tuberculosis and bacterial endocarditis will also be presented. There will be an introduction to antibiotics.This will be followed by a set of lectures on viruses with oral manifestations.These will include herpes, hepatitis, influenza, rhino, coxsackie, measles, mumps, rubella viruses and treatments using antiviral drugs. Highlighted will be HIV and opportunistic infections of AIDS. Next, fungal infections and treatmentswill be presented. Finally, infection control in dentistry will be featured.
0-6.5 Credit Hours

DENT 5042 Head and Neck Anatomy, Examination and Dissection
TBD
5-8 Credit Hours

DENT 5051 Biological Systems I
Biological Systems I is multi-disciplinary, module-based course. Module I will provide the student with a basic understanding of the molecular, tissue paterining and functional mechanisms that give rise to the human form. Clinical aberrations, including craniofacial dysmorphisms will be presented to illustrate whathappens when normal developmental mechanisms are disrupted. Module 2 will provide the student with a thorough understanding of the development, biology, morphology and function of mucosal epithelium, connective tissue, skin and salivary glands. Module 3 combines perspectives from neurocytology, neurophsyiology and pharmacology to help students develop a pre-clinical understanding of neuronal conduction and coordination as applied to the function and pharmacology of the somatic and autonomic nervous systems. Clinical correlations will be used whereappropriate.
2.25-6.25 Credit Hours

DENT 5062 Biological Systems IIi
Biological Systems III combines the study of the general principles of anatomy,physiology of the human vascular, muscular and neuroanatomic systems with an emphasis on the orofacial complex. The goals of the course are to provide students with a sound knowledge of normal biology and organization of those organ systems and to examine and discuss examples of pathophysiological conditions. Students should subsequently be able to recognize the anatomical stuctures, identify tissue types, and explain the principal physiological functions of the vasculature, muscle and cranial nerves. The third module also includes clinical assessment of cranial nerve function.
2.25-6.25 Credit Hours

DENT 5072 Biological Systems Iv
Cadaveric Anatomy of the Head and Neck is designed to facilitate integration of the gross anatomy learned systemically in the Biological Science track through the meticulous regional dissection of a human cadaver. In addition to enablingvisualization of both anatomical structures and their clinically significant relationships in a three-dimensional context, the course provides initiation into the tactile manipulation of the human body.
0.5-3 Credit Hours

DENT 5102 Behav Sci I-Health Promo
Lectures, seminars, clinical sessions and community field experiences are provided so that students gain the necessary knowledge and skills in oral health promotion and disease prevention activities related to caries, periodontal diseases and oral cancer. Focus is placed on assessment, planning, implementation and evaluation of strategies designed to target the individual patient, the community and a population perspective. Course topics include discussion of the philosophy, modalities, rationale and evaluation of health promotion and disease preventive activities related to caries, periodontal diseases and oral cancer. Focus is placed on assessment, planning, implementation and evaluation of strategies designed to target the individual patient, the community and a population perspective. Course includes an introduction to evidence based care and research principles in application to critique of current dental literature.
0.5-4 Credit Hours

DENT 5120 Local and Global Public Health I
This course provides students with an introduction and foundational knowledge in basic concepts in public health, and specifically dental public health. An overview of public health programs at the global, federal, state, local level is provided. Public health topics, such as access to care, advocacy, cultural competence, health literacy, dental care delivery system, leadership, ethics, dental payment mechanisms and public health financing are included to provide students with a broader perspective on the social, political and economic forces affecting oral health and dental practice at the local, state, national and global levels. Students attend lectures, seminars and complete twelve hours of community activities in order to gain knowledge and skills in community oral health.
Summer Term
0.75-2.25 Credit Hours

DENT 5180 Biological Systems V
The course will provide the student with a sound knowledge of hematology and the basic biology and organization of the cardiovascular, pulmonary and renal systems; and establish the general integrative knowledge of the pathologies most commonly associated with these systems. The student will be made aware of the relevance of those pathologies, and the therapeutic agents applied, to dental practice. On the basis of the information and concepts learned during the course, the student will subsequently be able to: 1) Understand laboratory medicine, hematologic disorders, and transplant medicine; 2) To recognize the anatomical structures, identify tissue types, and explain the principal physiological functions of the three internal systems; 3) To recognize and explain the interrelationships within and between the anatomical structures of the heart, blood vessels, lung, and kidney; 4) To familiarize with the common pathologies likely to be encountered during dental practice and their implications to oral health; 5) To understand how specific systemic diseases affect diagnosis, management and general well-being of the dental patient.
3 Credit Hours

DENT 5301 Intro To the Patient
This course will provide foundational knowledge about the doctor patient relationship, present medical history skills and cover the basics of a dental orofacial physical exam. The first part of the course inlcudes lectures outlining the doctor patient relationship, components and applications of the medical history. The second part includes lectures outlining the components and application of the physical exam, including vital signs, cranial nerve exam, head and neck examination, and examination of the heart and lungs. The third and final partof the course includes two practical workshops in small groups where students are required to practice taking medical histories and performing various components of the physical examination. The second rotation occurs in the Oral Diagnosis clinic where students take a medical history and perfome a physical examination on a PDM admissions patient.
2.25-4.75 Credit Hours

DENT 5321 Biological Systems II
Presented in lectures and seminars, Module 1, will present information on the history of Radiology, in particular Dental Radiology and its implications for diagnosis and patient care. Module 2 will present a detailed survey of osteologogy of the skull, cervical spine and laryngeal skeleton in a series of interactve lectures and small-group conferences. Appreciation of the three-dimensional anatomy of the cranium, temporomandibular joint and the orofacial skeletal comlex will be reinforced with integrative presentations of radiographic anatomy to introduce some clinical correlations. Module 3 will present a basic knowledge of bone based on developmental, anatomical, histological, radiological, molecular and functional perspectives. Teach the fundamental principles of cell-cell interactions, extracellular matrix deposition and mineralization related to bone homeostasis, remodeling and healing. Concepts will be emphasized with radiolgical presentation of bone diseases using different imaging modalities.
0-4.5 Credit Hours

DENT 5331 Building Bridges: Patient Care, Community and The Science of Oral Health
This course will provide foundational knowledge about the doctor patient relationship, present medical history skills and cover the basics of a dental orofacial physical exam. The first part of the course inlcudes lectures outlining the doctor patient relationship, components and applications of the medical history. The second part includes lectures outlining the components and application of the physical exam, including vital signs, cranial nerve exam, head and neck examination, and examination of the heart and lungs. The third and final partof the course includes two practical workshops in small groups where students are required to practice taking medical histories and performing various components of the physical examination. The second rotation occurs in the Oral Diagnosis clinic where students take a medical history and perfome a physical examination on a PDM admissions patient.
6-8.5 Credit Hours

DENT 5340 Intro. To Hematology and Lab Medicine
The objective of the Freshmen Dental Occulsion course is to provide foundational knowledge regarding human occulsion and the temporomandibular joint. Dental occlusion relative to Operative dentistry procedures will be discussed. This knowledge will be called upon throughout all four years of the dental curriculum. This course includes lectures and laboratory sessions where waxing of teeth using only concepts related to dental occlusion, selective grinding to achieve an ideal occlusal relationship, alginate impressions and diagnostic model making, facebow transfer, and diagnostic model mounting procedures will be completed to reinforce didactic materials presented.
1.25-2 Credit Hours

DENT 5380 Operative Dent. Lab
The objective of the Freshmen Operative Dentistry Laboratory course is to develop an understanding of the normal, healthy stomatognathic system and to introduce fundamental didactic and psychomotor skills, relative to operative dentistry procedures. The course includes a review of individual tooth anatomy and the study of occlusion to define what is normal and healthy. The study of cariology and the treatment of the pathologic progress continues afterward. Restoration of form and function with basic intracoronal amalgam and composite procedures then follows. More complex intracoronal procedures such as gold inlay and porcelain onlay preparations and restorations are then taught. Throughout the entire course, the study of occulsion as it applies to restorative dentistry procedures is continued.
2 Credit Hours

DENT 5400 Intro To Pharmacology
Neuropharmacology is both a basic science and a clinical science. It builds on the foundation of anatomy, biochemistry, physiology, and pathology and bridges the gap into clinical dentistry. This course in basic neuropharmacology will give the students a better understanding of drugs, interpreting complicated drug/medical histories, and understanding drug reactions. This module will focus on pharmacology of the central nervous system with lectures on analgesic agents, antianxiety drugs, general anesthetics, arthritis and gout drugs, prescription writing and a host of other agents used to treat diseases of the CNS including Parkinson's, seizures, and a variety of psychiatric disorders. Clinically relevant drug-drug interactions will also be covered in this course.
0.25-3 Credit Hours

DENT 5440 Oral & Maxillofacial Complex I
This course will develop a general knowledge of fundamental concepts in orofacial function and occlusion. The course is presented in two modules, with an exam at the end of each module. The orofacial function module will focus on physiology anatomy and function of the facial structures, including saliva, mastication, speech, swallow, smell and taste. The goal is for the students to have a basic understanding of orofacial function. The occlusion module will dicuss the role of occlusion in restorative dentistry with emphasis on the clinical application of fundamental biomechanical principles, techniques and instruments. By focusing on diagnosis, the student will be able to understand and develop the parameters to create successful restorative decisions and well-sequenced treatment plans. This module will provide a mandatory hands-on session for facebow transfer, unterocclusal record and articulator set-up.
0-3.75 Credit Hours

DENT 5520 Ethics I
The objective of the PEDM courses (1st,2nd and 3rd year courses) is to impart a general knowledge of fundamental concepts in principles of professionalism and ehtical decision making with emphasis on care-based discussions. The courses utilize lectures, seminars, online discussions, and reflection papers to addressissues related to doctor-patient relationships, academic integrity as well as professinal communication. These Pass/Fail courses provide a forum for discussing, debating and understanding parameters of professional and ethical behavior, and their impact on the patients, colleagues, the public, and the profession. PEDM I focuses on academic integrity, micro-aggresssions and how professional and ehtical behavior during pre-clinical years translates into ethical clinical practice.
0.5 Credit Hours

DENT 5640 Intro To Clinical Dent I
This course provides first-year dental students with a variety of different clinical experiences. The student spends day-long rotations in various predoctoral and specialty PDM clinics. In addition, students gain a unique perspective in practice management by assisting PDM staff with dispensing clinical supplies and in Instrument Management Services.
0.25 Credit Hours

DENT 5702 Periodontics I
This course is presented in two parts. The first part presents basic biology concepts applied to the healthy and diseased periodontium. Macroscopic and microscopic changes of the periodontium will be featured and how these are altered by disease. In addition the biological basis for etiology, pathogenesis and epidemiology of periodontal disease is presented. The second part consists of presenting the basic clinic procedures for diagnosis and non-surgical treatment of periodontal diseases through lectures, preclinical labs and clinical rotations. Part 2: consists of lectures, pre-clinical labs and clinical rotations. Those will be dedicated to presenting diagnostic and non-surgical aspects of periodontal therapy.
0.5-3.5 Credit Hours

DENT 5712 Dental Plaque-Induced Diseases, Prevention and Minimally Invasive Practice
TBD
5-8 Credit Hours

DENT 5800 Orthodontics I
This course will expose the students to the diagnostic and treatment planning process in orthodontics. The student will also be taught the basic principles and events in child growth and development (craniofacial, somatic and dentitional) as well as the development and diagnosis of malocclusions.
2.25 Credit Hours

DENT 5801 Advanced Simulation
The objective of the Freshman Advanced Simulation Laboratory course is to introduce and develop specific psychomotor and cognitive skills through the use of virtual reality based training that will enhance and augment future skills acquired in the preclinical General Restorative Dentistry, Operative Dentistry course. Technical skills are developed through learning preparations with a high speed handpiece, and dental hand instruments in a virtual reality, advanced simulation environment. Suitable operative skills, knowledge, and ergonomics will be emphasized for the successful transition into the preclinical operative course. Dental terminology and principles of tooth preparation will be applied to the theory of all the basic preparations. Suitable operative skills, knowledge, and ergonomics will be emphasized for the successful transition into the preclinical operative course.
0.25-2 Credit Hours

DENT 5821 Dental Devel.& Anatomy
The Freshman Dental Development and Anatomy provides foundational knowledge regarding Tooth development, Primary dentition, Permanent dentition, Tooth numbering systems, Tooth classification (Incisors, Canines, Premolars, Molars), Set Traits (traits between Primary and Permanent dentition), Class traits (traits for each kind of tooth), Arch traits (traits of maxillary vs. mandibular), and Type traits (differences between teeth within the Class). Dental morphology relative to Operative dentistry procedures will be discussed. This knowledge will be called upon throughout all four years of the dental curriculum.
0.75-4 Credit Hours

DENT 5841 Dental Auxiliary Utilization II
This course is designed to teach the first-year student a four-handed dental assisting technique which is used to assist third and fourth year students in clinical practice. In addition, skills such as patient communication, team building, and record keeping are taught. Students gain clinical experience and assist in the same procedures that they are encountering in GRD, thus forming a clinical bridge to pre-clinical learning. Lectures, a written exercise, a lab, clinical rotations and completion of a clinical exam make up the didactic portions of the course.
0.25-3 Credit Hours

DENT 5842 Clinial Prac II - Dau
This course is designed to teach the first-year student a four-handed dental assisting technique which is used to assist third and fourth year students in clinical practice. In addition, skills such as patient communication, team building, and record keeping are taught. Students gain clinical experience and assist in the same procedures that they are encountering in GRD, thus forming a clinical bridge to pre-clinical learning. Lectures, a written exercise, a lab, clinical rotations and completion of a clinical exam make up the didactic portions of the course.
0.75-4 Credit Hours

DENT 5862 Operative Dent. Lecture
The ojective of the Freshmen Operative Dentistry lecture course is to give foundation knowledge of operative instrumentation, operative dentistry, terminology, principles of cavity preparations, and the basics of single tooth restorations.
0.75-4 Credit Hours

DENT 5870 Introduction to Caries Risk Assessment
This course provides students with GRD experience in order to gain additional knowledge, skills and values to develop competency in caries risk assessment. Classes are scheduled for the summer for the incoming second year and include the following topics: risk assessment for caries, health promotion care, and Axium. Students will be completing caries risk assessment in the simulation lab and record the completion of procedures in Axium using appropriate codes to document completion of required activities.
0.5 Credit Hours

DENT 5882 Dental Materials
The course is divided into two segments. The first segment teaches the principles of materials science. The second segment is designed to present topics in applied dental materials as students use these materials in General Restorative Dentsitry (GRD). After successful completion, the student should understand how the basic principles aid in material selection, risk/benefit assessment, restoration design, patient information and evaluation of new materials and manufactuer's claims.
0.25-3 Credit Hours

DENT 5890 Restorative Microscopy I
The use of enhanced magnification with loupes is a widely accepted standard practice to perform restorative dentistry. The dental operating microscope can provide superior visual performance. For the endodontic specialty, the dental microscope has demonstrated significantly higher success rates compared to loupes. The success of endodontic therapy utilizing the dental microscope suggests that the dental clinician may achieve better outcomes with microscope implementation in restorative dentistry. This introductory course will provide each participant the ability to learn essential restorative microscope utilization techniques in combination with dental loupes for optimal precision dentistry.
Summer Term
0.25-0.75 Credit Hours

DENT 5912 Honors I
In line with PDM's vision to transform global oral health and well-being through exceptional clinical care, innovation, education, and research, the PDM Honors Course provides qualified students an enrichment experience designed to cultivate enhanced understanding of and a leadership outlook in Oral Health related disciplines. These disciplines include Basic and Translational Research, Clinical Dentistry, Clinical Research, Community Oral Health, Endodontics, Nutritional Sciences, Oral and Maxillofacial Surgery, Orthodontics, Pediatric Dentistry, Periodontics, Personalized Care, Radiology and Oral Medicine and Vulnerable Populations.
Spring
1.5-3.5 Credit Hours

DENT 5992 Selectives I
0.25-1.5 Credit Hour

DENT 6001 Biological Systems V
A comprehensive overview of the cardiovascular, respiratory, and renal organ systems will be discussed by faculty from the School of Dental Medicine. Lectures will also be given by faculty from the School of Medicine. Module 1, will provide the student with an introduction to histology, gross anatomy, and physiology of the cardiovascular system. Next, lectures will introduce the student to the common diseases that may involve the cardiovascular systems that includes, atherosclerosis, conduction disorders, and valvular diseases. Lectures on pharmacology will be presented to apply understanding of normal physiology and mechanisms underlying disease processes. Module 2, will provide the student with an introduction to histology, gross anatomy, and physiology of the respiratory system. Next, lectures will introduce the student to the host defense of the pulmonary systems, and the infectious diseases that may occur when defense are defective. Additionally, lectures will introduce the small vessel vasculitides that can present with head and neck manifestations. Module 3, will provide the student with an introduction to histology, gross anatomy, and physiology of the renal system. Next, lectures will introduce the student to the fundamental physiologic processes that occur in the renal system, which includes glomerular function, regulation of potassium balance, and the buffering system. Lectures on pharmacology will be presented to apply understanding of normal renal physiology and drug mechanisms.
1-5 Credit Hours

DENT 6042 Oral & Maxil Complex II
This is a course that will apply what students have already learned in Foundation Sciences and Biologic Systems courses to the study, interpretation and diagnosis of oral disease. It is an essential link between the basic and clinical sciences concerned with the mechanisms of disease (e.g., inflammation, genetic disease, neoplasia, immunopathology) and the disease processes that students will encounter during their careers in dentistry. The emphasis will be on oral soft and hard tissue pathology, including oral manifestations of systemic diseases that may impact on the health of the patients.
1.5-3.5 Credit Hours

DENT 6062 Biological Systems Vii
Cadaveric Anatimy is designed to facilitate integration of the gross anatomy learned systematically in the Biological Systems curriculum stream through the meticulous regional dissection of a human cadaver. In addition to enabling visualization of both anatomical structures and their clinically significant relationships in a three-dimensional context, the course provides initiation into the tactile manipulation of the human body.
0.25-2 Credit Hours

DENT 6101 Local,Public Hlth,Ethic
Lectures, seminars and community experiences provide students with foundation knowledge in general principles of public health and community health, with specific application to the following dental public health concepts: access to care, cost, quality of care and international health. Students complete community experiences that provide foundation experiences in developing and implementing community oral health promotion activities.
0.25-3 Credit Hours

DENT 6102 Local & Public Health II
Lectures, seminars and community experiences provide students with foundation knowledge in general principles of public health and community health, with specific application to the following dental public health concepts: access to care, cost, quality of care and international health. Students complete community experiences that provide foundation experiences in developing and implementing community oral health promotion activities.
Spring
0.25-1.5 Credit Hour

DENT 6110 Biological Systems IV
This course combines an introduction to the general principles of anatomy, histology, and physiology of the human cardiovascular, pulmonary and renal systems, with an extensive study of the pathology and therapeutics of these systems, with an explicit emphasis on their relationship to dental practice. This course is presented in three modules. We have assembled a diverse and experienced group of lecturers, including experts in oral medicine, oral surgery, anatomy, physiology, pharmacology and pulmonary and renal medicine.
1.25 Credit Hour

DENT 6160 Biological Systems Viii
This course combines an introduction to the general principles of anatomy, histology, and physiology of the human hematopoietic and lymphoid system and neurologic systems with an extensive study of the pathology and therapeutics of these systems, and with an explicit emphasis on their relationship to dental practice.
2 Credit Hours

DENT 6162 Behavioral Management
This course provides students with the knowledge and skills to communicate with and manage appropriately a diverse group of clinical patients. Eight hours of small group activity, including experiences with standardized patients, as well as tweleve hours of large group activities provide the foundational knowledge and skills in patient management with diverse and challenging patients. Motivational interviewing is presented and discussed as a strategy for communication and management with patients.
0.5-3.5 Credit Hours

DENT 6202 Endodontics Lecture
The Department of Endodontics trains pre-doctoral students to become competent in basic endodontic procedures. This includes instruction in the foundational core of Endodontics, including pulp biology, primary non-surgical root canal treatment. Clinical Endodontics: The Department of Endodontics furthermore trains pre-doctoral students to understand advanced endodontic procedures. This includes instruction in trauma, resorption, retreatment, endodontic surgery, bleaching, etc. Our ultimate goal is to implement that treatment/education in a caring, respectful, and responsible manner.
2.5-5 Credit Hours

DENT 6212 Control and Treatment of Dental Plaque-Induced Diseases
TBD
5-8 Credit Hours

DENT 6222 Endodontics Lab
The pre-clinical endodontic laboratory course is designed to introduce endodontic concepts and techniques to a student under simulated conditions using extracted teeth.
0.25-2 Credit Hours

DENT 6240 Oral & Maxil Complex III
This course is designed to give the student exposure to all methods of anesthesia and pain control used in dentistry, as well as, various medical emergencies encountered in practice. In addition, the students will learn about the mechanisms and consequences of orofacial pain. All lectures will be presented by faculty members from the departments of Oral and Maxillofacial Surgery & Pharmacology and Oral Medicine.
1.5 Credit Hour

DENT 6280 Oral Diagnosis and Emergency Medical Clerkship
The purpose of this course is to give students a foundation for understanding physical diagnosis, medical work-ups, medical consultations and medical conditions which directly affect the medical management of the dental patient.
3 Credit Hours

DENT 6301 Biological Systems V
This course combines an introduction to the general principles of anatomy, histology, and physiology of the human cardiovascular, pulmonary and renal systems, with an extensive study of the pathology and therapeutics of these systems, with an explicit emphasis on their relationship to dental practice.
1.5-4 Credit Hours

DENT 6310 Fixed Prosthodontics Lab
The curriculum of Fixed Prosthodontics Laboratory deals with the building of knowledge, thought processes, skills and understanding the procedures required in the restoration of missing and/or badly broken-down teeth by the fabrication of non-removable prostheses. Student will gain hands-on experience in the clinical and technical aspects of fixed prosthodontics.
0.25-2.5 Credit Hours

DENT 6321 Biological Systems Vi
This course combines an introduction to the general principles of anatomy, histology, and physiology of the human gastrointestinal, hepatobiliary, and endocrine systems, with an extensive study of the pathology and therapeutics of these systems, with an explicit emphasis on their relationship to dental practice.
2.25-5 Credit Hours

DENT 6322 Medical Clerkship
The purpose of this course is to give student doctors a foundation for understanding physical diagnosis, medical work-ups, medical consultations and medical conditions which directly affect the medical management of the dental patient. Clinical Case of the Day examples are reviewed/discussed.
0.25-3 Credit Hours

DENT 6331 Systemic Health and Clinical Medicine
A comprehensive overview of the cardiovascular, respiratory, and renal organ systems will be discussed by faculty from the School of Dental Medicine. Lectures will also be given by faculty from the School of Medicine. Module 1, will provide the student with an introduction to histology, gross anatomy, and physiology of the cardiovascular system. Next, lectures will introduce the student to the common diseases that may involve the cardiovascular systems that includes, atherosclerosis, conduction disorders, and valvular diseases. Lectures on pharmacology will be presented to apply understanding of normal physiology and mechanisms underlying disease processes. Module 2, will provide the student with an introduction to histology, gross anatomy, and physiology of the respiratory system. Next, lectures will introduce the student to the host defense of the pulmonary systems, and the infectious diseases that may occur when defense are defective. Additionally, lectures will introduce the small vessel vasculitides that can present with head and neck manifestations. Module 3, will provide the student with an introduction to histology, gross anatomy, and physiology of the renal system. Next, lectures will introduce the student to the fundamental physiologic processes that occur in the renal system, which includes glomerular function, regulation of potassium balance, and the buffering system. Lectures on pharmacology will be presented to apply understanding of normal renal physiology and drug mechanisms.
5-7 Credit Hours

DENT 6360 Fixed Prosthodontics II
The curriculum of the Fixed Prosthodontics Lecture Course deals with building knowledge, thought processes and understanding the procedures required in the restoration of missing and/or badly broken down teeth by the fabrication of non-removable prostheses.
1.5 Credit Hour

DENT 6370 Fixed Prosthodontics Laboratory II
The curriculum of Fixed Prosthodontics Laboratory deals with the building of knowledge, thought processes, skills and understanding the procedures required in the restoration of missing and/or badly broken-down teeth by the fabrication of non-removable prostheses. Student will gain hands-on experience in the clinical and technical aspects of fixed prosthodontics.
Spring
1.75 Credit Hour

DENT 6401 Intro To Pharmacology
Neuropharmacology is both a basic science and a clinical science. It builds on the foundation of anatomy, biochemistry, physiology, and pathology and bridges the gap into clinical dentistry. This course in basic neuropharmacology will give the students a better understanding of drugs, interpreting complicated drug/medical histories, and understanding drug reactions. This module will focus on pharmacology of the central nervous system with lectures on analgesic agents, antianxiety drugs, general anesthetics, arthritis and gout drugs, prescription writing and a host of other agents used to treat diseases of the CNS including Parkinson's, seizures, and a variety of psychiatric disorders. Clinically relevant drug-drug interactions will also be covered in this course.
0.25-3 Credit Hours

DENT 6402 Soft and Hard Tissue Pathology, Diagnosis and Management
TBD
5-8 Credit Hours

DENT 6421 Neuro,Neuropharm,Beh Mg
1.5-4.25 Credit Hours

DENT 6431 Cognitive Sciences, Pharmacotherapeutics and Patient Evaluation
This course combines an introduction to the general principles of the neurologic system with an extensive study of its pathology and therapeutics, including neuropharmacology, of these systems, and with an explicit emphasis on their relationship to dental practice. We have assembled a diverse and experienced group of lecturers, including experts in oral medicine, neuroanatomy, neuropathology, pharmacology, clinical psychology and psychiatry. Module 1 will focus on development of the brain, neurologic disorders, mental health and psychiatric disease, and the biology of sleep medicine emphasizing the role of dentists in treating sleep apnea. Clinical correlations will be used throughout the course. Module 2 will primarily focus on the pharmacotherapeutics of neurologic and mental health diseases
4.75-6 Credit Hours

DENT 6441 Oral & Maxil Complex II
This course will develop a general knowledge of fundamental concepts in orofacial function and occlusion. The course is presented in two modules, with an exam at the end of each module. The orofacial function module will focus on physiology anatomy and function of the facial structures, including saliva, mastication, speech, swallow, smell and taste. The goal is for the students to have a basic understanding of orofacial function. The occlusion module will dicuss the role of occlusion in restorative dentistry with emphasis on the clinical application of fundamental biomechanical principles, techniques and instruments. By focusing on diagnosis, the student will be able to understand and develop the parameters to create successful restorative decisions and well-sequenced treatment plans. This module will provide a mandatory hands-on session for facebow transfer, unterocclusal record and articulator set-up.
0-3.75 Credit Hours

DENT 6460 Medical Emergencies
Oral Surgery and Pharmacology
1 Credit Hour

DENT 6502 Orthodontics I
The purpose of this course is to provide students with the knowledge of growth and development, concentrating on child somatic, craniofacial, and dental growth and development. The students build a solid foundation along the lines of diagnosing problems and understanding the etiology of malocclusion and space maintenance.
1-3.25 Credit Hours

DENT 6520 Ethics II
PEDM II focuses on preparing students to enter the clinical practice of dentistry; building relationships with patients, colleagues, and faculty; and developing and a moral framework for clinical decision making.
0.5 Credit Hours

DENT 6522 Adjunctive Ortho Lec/Lab
This course is designed to expose the student to basic orthodontic laboratory and clinical procedures and encourages the development of technical abilities in banding, bonding, wire bending, and removable appliance fabrication.
0.25-3 Credit Hours

DENT 6602 Pediatric Dentistry I
Pediatric Dentistry: This course will cover Fundamentals of Pediatric Dentistry that will allow you to have a working knowledge of how to manage infants, children, adolescents and patients with special needs that come into your office as a general dentist. The course also describes topics in pediatric relevant to a variety of dental specialties for those interested in pursuing post-graduate studies.
0.25-3 Credit Hours

DENT 6612 Patients Across the Lifespan
TBD
5-8 Credit Hours

DENT 6660 Recall Clinic
0.5 Credit Hours

DENT 6702 Periodontics II Lec/Lab
This course will be focused on non-surgical periodontal therapy. The macroscopic and microscopic effects of this modality of treatment will be discussed. Different forms of periodontal diseases and non-surgical therapeutic tools will also be presented as well as information on the prognosis of the periodontal therapy and the relevance of maintenance.
0-3.5 Credit Hours

DENT 6801 Fixed Prosthodontics
The curriculum of the Fixed Prosthodontics Lecture Course deals with the building of knowledge, thought processes and understanding the procedures required in the restoration of missing and/or badly broken-down teeth by the fabrication of non-removable protheses. Students will learn diagnosis, treatment planning, rehabilitation and maintenance of oral function, comfort, appearance and health of patients with clinical conditions associated with missing or deficient teeth using biocompatible substitutes. These restorations must provide an improved state of oral health, function and esthetics for patients.
2.5-5 Credit Hours

DENT 6802 Fixed Prosthodontics Lec Spring
This is the continuation of the fall lecture course. The curriculum of the Fixed Prosthodontics Lecture Course deals with the building of knowledge, thought processes and understanding the procedures required in the restoration of missing and/or badly broken-down teeth by the fabrication of non-removable protheses. Students will learn diagnosis, treatment planning, rehabilitation and maintenance of oral function, comfort, appearance and health of patients with clinical conditions associated with missing or deficient teeth using biocompatible substitutes. These restorations must provide an improved state of oral health, function and esthetics for patients.
0.5-3.25 Credit Hours

DENT 6811 Operative Dentistry II
This course will give a continuation of the D1 course dealing with the whole patient and the surgical and non-surgical treatment of the dental hard tissues. It builds on the foundation knowledge and experience from 1, exposing students to more complex cases. Both the classical and contemporary preparations of restorative dentistry are presented. Student will prepare for the patient care program by reviewing updates in cardiology, caries diagnosis; caries risk assessment, CAD/CAM and homecare procedures being reinforced in a simulated patient setting. All laboratory procedures will be “cased based” using a patient scenario. This training will take place in a simulation environment that develops good “clinical” habits and integrates “patient” data into the daily treatment. The course will also introduce the D2 student to the clinic Electronic Health Record (HER) using these same patient scenarios. The course finally transitions students to active patients care in the clinic. As a result of the emphasis on this “case-based approach” students will enhance their treatment planning skills by creating a complete EHR for reach of their assigned ‘patients.’ All records will be reviewed by faculty. Students will be encouraged to consult with their colleagues, and research needed information for input into all elements of treatment planning. This will also ensure a smoother transition to their clinic performance, clinic requirements, and to the electronic record system. Faculty feedback and mentoring will include the assembled patient records, and how they meet professional standards.
1.25-5 Credit Hours

DENT 6812 Partial Rem Dent Pros Lb
A combination of lectures, seminars and laboratory exercises provide the dental student with a fundamental understanding of the partially edentulous condition. Topics covered include classification, diagnosis, treatment planning and treatment of partially edentulous patients with RPDs. This course is designed to provide students with the terminology, concepts and principles necessary for case selection, design, construction of, and patient therapy with conventional RPDs. Upon completion of this course students will have the neccessary didactic knowledge to successfully understand and treat removable partial denture cases in conjunction with the clinical faculty during their third and fourth years.
0.75-4 Credit Hours

DENT 6822 Complete Rem Dent Pros L
The goal of this course is to provide students with the foundation of knowledge needed to diagnose and treat edentulous patients. Students should be able to: 1. Recognize and define complete denture terminology deemed relevant in the classroom, course syllabus, and assigned readings. 2. Describe medical, emotional, and oral anatomic factors that aid in formulation of diagnostic considerations in the complete denture therapy. 3. Describe functional anatomy of the edentulous mouth. 4. Understand the clinical procedures performed during the construction of conventional complete dentures and during the maintenance phase of treatment. 5. List the fundamental clinical procedures performed during the construction of immediate complete dentures. 6.Understand the complete denture occlusion. Upon completion of this course, the students should have an in-depth understanding of: 1. The need for therapy in and restoration of the edentulous arch with complete protheses. 2. The significance of avoiding the edentulous condition in a patient wherever possible. 3. The dental materials that are used at the different stages of complete dentures therapy. 4. The concept and techniques of the clinical steps involved in the treatment of the edentulous patient.
0.25-3 Credit Hours

DENT 6831 Fixed Prosthodontics Laboratory
The curriculum of the Fixed Prosthodontics Laboratory deals with the building of knowledge, thought processes, skills and understanding the procedures required in the restoration of missing and/or badly broken down teeth by the fabrication of non-removable prostheses. Students will gain hands-on experience in the clinical and technical aspects of fixed prosthodontics.
1-4 Credit Hours

DENT 6832 Fixed Prosthodontics Laboratory Spring
This is a continuation of the fall lab course. The curriculum of the Fixed Prosthodontics Laboratory deals with the building of knowledge, thought processes, skills and understanding the procedures required in the restoration of missing and/or badly broken down teeth by the fabrication of non-removable prostheses. Students will gain hands-on experience in the clinical and technical aspects of fixed prosthodontics.
1-4 Credit Hours

DENT 6841 Clinical Practice I
Placeholder course description being finalized. Introduction to Clinical Practice for 2nd year DMD students.
0.25-3 Credit Hours

DENT 6842 Clinical Prac IIi-Dau
Dental Auxiliary Utilization for the sophomore class builds on the dental assisting skills the student has mastered in DAU 562. In 662, the student moves on from assisting to Expanded Functions Dental Auxiliary skills that have been taught in the General Restorative Dentistry course. Goals of the course include the goals of DRAUT 562, as well as the development of skills to restore prepared teeth, cement and fabricate temporary crowns, and obtaining, clinical patient records of third and fourth-year student patients. Emphasis is increased on the student's independent completion of patient-centered tasks and preparation for becoming primary providers in the third year.
0.75-4 Credit Hours

DENT 6851 Fundamentals of Critical Thinking and Clinical Decision-Making
This course provides students with foundational knowledge and skills for evidence-informed clinical decision-making, critical thinking, and health literacy. The course presents a variety of clinical scenarios that guide the exploration of forms of evidence from primary and secondary research and their utilization to inform daily clinical and policy decision-making. The course provides the necessary skills for the students to become independent thinkers, efficiently navigate sources of evidence to inform practice, identify strengths and limitations of a variety of research study designs, master results interpretation, and apply study results and clinical practice guideline recommendations to patient care. In addition, the students will learn about the principles of health literacy and acquire the skills to contribute to their patients' ability to make health decisions informed by evidence. Students attend weekly interactive lectures, seminars and need to pass a final exam.
1-2 Credit Hours

DENT 6852 Advanced Restorative Esthetics
tbd
Spring
1 Credit Hour

DENT 6862 Complete Rem Dent Pros B
The goal of this second-year course is to provide the dental students with the technical knowledge and skills needed to perform all the laboratory procedures used in the construction of complete dentures and apply the foundation knowledge learned in the lectures. Students should be knowledgeable and skilled in the following: 1. Describing and performing selected sequential clinical and laboratory procedures required during the construction of complete dentures. 2. Applying the knowledge related to dental materials learned in the lectures. Upon completion of this course, the students should be able to: 1. Perform all the laboratory procedures used in construction of complete dentures. 2. Demonstrate the function and the usage of Hanau face bow and articulator in the construction of complete dentures. 3. Communicate with the laboratory technicians via properly written work authorizations.
0.75-4 Credit Hours

DENT 6872 Pass Preparatory Course
This is a preclinical laboratory course that consists of preclinical laboratory sessions and short presentations which include demonstrating and performing restorative and prosthetic procedures in a simulated environment (manikin and typodonts)
0-3 Credit Hours

DENT 6882 Intro To Clin Dent II
This course is offered by the Department of Preventive and Restorative Sciences at the University of Pennsylvania School of Dental Medicine. It is intended to integrate topics from General Restorative Dentistry courses and DAU courses at the PDM with clinical expectations and procedures of PDM clinics.
0.75-4 Credit Hours

DENT 6892 Professionalism, Ethics and Healthcare Communities
The Professionalism, Ethics and Healthcare Communities is comprised of ten Modules asynchronous online material designed to introduce incoming graduate and dental students to a range of concepts, theories and skills aimed at increasing their awareness issues of racism and oppression to promote inclusive and affirming classrooms and learning communities. The course material is delivered through a series of short videos and readings. Modules covers such topics as implicit bias, microaggressions conflict resolution and bystander intervention; free speech and inclusion, social media usage; racism and other forms of oppression; gender and gender identity; equity and access in healthcare; understanding and owning whiteness and racial literacy; and restorative justice. Students also attend 1 -in-person seminar titled "Restorative Practices, Conflict Skills and Responding to Harm" conducted by representatives from the Office of Restorative Practices and Student Conduct.
Spring
0.25-3 Credit Hours

DENT 6900 Oral Surgery I
This course is designed to give the student exposure to all aspects of the wide and varied scope of oral and maxillofacial surgery. The course also promotes the integration of the basic sciences and medicine into the daily practice of oral and maxillofacial surgery and dentistry. It builds upon and incorporates knowledge from many prerequisite courses, particularly the Pharmacology, Microbiology, and Anesthesia, Pain, and Anxiety courses. After successful completion of this course and its clinical counterpart (course #872), the student should be competent in the management of all aspects of oral and maxillofacial surgery as outlined above under the course goals. Lectures will be presented by faculty members of the department of Oral and Maxillofacial surgery. The lecture material and reading assignments are designed to be complementary. Examinations will encompass material from both sources. Additionally at the request of the dean of academic affairs, the examinations will include questions that reinforce the knowledge obtained by completion of the prerequisite courses of PHARMACOLOGY, MICROBIOLOGY, and Anesthesia, Pain, and Anxiety. Students should review the material from those courses as both the midterm and final examinations will contain questions from knowledge obtained by their completion.
3 Credit Hours

DENT 6912 Honors II
In line with PDM's vision to transform global oral health and well-being through exceptional clinical care, innovation, education, and research, the PDM Honors Course provides qualified students an enrichment experience designed to cultivate enhanced understanding of and a leadership outlook in Oral Health related disciplines. These disciplines include Basic and Translational Research, Clinical Dentistry, Clinical Research, Community Oral Health, Endodontics, Nutritional Sciences, Oral and Maxillofacial Surgery, Orthodontics, Pediatric Dentistry, Periodontics, Personalized Care, Radiology and Oral Medicine and Vulnerable Populations.
Spring
1.5-3.5 Credit Hours

DENT 6992 Selectives II
0.25-1.5 Credit Hour

DENT 7002 Differential Diagnosis
tbd
Spring
0.5 Credit Hours

DENT 7101 Health Promotion S
0.25-2 Credit Hours

DENT 7102 Health Promotion II Spring
This course provides students with both seminars and clinical experiences in order to gain additional knowledge, skills and values to develop competency in health promotion activities. Seminars are scheduled throughout the third year and include the following topics: risk assessment for caries, periodontal diseases and oral cancer; customized oral health promotion plans to address risks and promote health; health promotion care with dentures and implants; modifying health promotion for patients with physical, developmental and emotional disabilities. Discussions also focus on communication to meet the different social and cultural needs of patients. Clinical experiences in the Primary Care Units and Community Clinics provide students with opportunities to develop skills and competencies related to health promotion. Oral health promotional activities are an integral part of the care students provide with their patients. Students complete a Caries and Periodontal Risk Assessment with each patient and provide customized oral health promotional services periodically throughout treatment. Students provide fluoride treatments, tobacco counseling and nutritional counseling as appropriate for their patients. In addition, edentulous patients receive special advice regarding mouth care, denture care and oral cancer self-examination procedures. Students must record the completion of health promotion procedures in Axium using appropriate codes to document completion of required clinical activities. In addition, students must record the completion of appropriate health promotion activities on the clinical charts.
Spring
0.25-2 Credit Hours

DENT 7122 Community Oral Health
4-8 Credit Hours

DENT 7160 Professional Practitioner Development I
This course provides the foundation for students to understand knowledge, skills and attitudes that dental students must develop as professional dental care providers for success in dental practice. Three modules comprise this course: Ethics, Practice Management and Professionalism, and Behavior Management. Module 1 Ethics prepares students to enter the clinical practice of dentistry; build relationships with patients, colleagues and faculty; and develop a moral framework for clinical decision-making. The module follows the principle that by discussing ethical challenges and creating a plan for approaching them one can be a more ethical clinician when faced with dilemmas in real life. Module 2 Practice Management and Professionalism includes synchronous and asynchronous lectures and seminars on the following topics: developing career goals; concepts in leadership and mentorship; dental business basics; risk management and overview of dental insurance, CDT and coding. Seminars focus on application of lecture concepts to developing dental practice in leadership, insurance and risk management. Module 3: Behavior Management provides students with the knowledge and skills to communicate with and manage appropriately a diverse group of clinical patients at Penn Dental Medicine. Topics include discussion of patients' perception of dentists and dental care, patient adherence and motivational interviewing, health disparities, management of diverse patients with psychiatric disorders, patients with fear, anxiety, phobias and pain, as well as review of the dentist's role in identifying and managing patients experiencing abuse (child abuse and intimate partner violence) and addiction disorders. Experiences with four standardized patients are scheduled to provide the foundational knowledge and skills in patient management with diverse and challenging patients. Motivational interviewing is discussed as a strategy for communication and management of change with patients.
1.75 Credit Hour

DENT 7162 Professional Practitioner Development II
This course provides the foundation for students to understand knowledge, skills and attitudes that dental students must develop as professional dental care providers for success in dental practice. Three modules comprise this course: Ethics, Practice Management and Professionalism, and Behavior Management. Module 1 Ethics prepares students to enter the clinical practice of dentistry; build relationships with patients, colleagues and faculty; and develop a moral framework for clinical decision-making. The module follows the principle that by discussing ethical challenges and creating a plan for approaching them one can be a more ethical clinician when faced with dilemmas in real life. Module 2 Practice Management and Professionalism includes synchronous and asynchronous lectures and seminars on the following topics: developing career goals; concepts in leadership and mentorship; dental business basics; risk management and overview of dental insurance, CDT and coding. Seminars focus on application of lecture concepts to developing dental practice in leadership, insurance and risk management. Module 3: Behavior Management provides students with the knowledge and skills to communicate with and manage appropriately a diverse group of clinical patients at Penn Dental Medicine. Topics include discussion of patients' perception of dentists and dental care, patient adherence and motivational interviewing, health disparities, management of diverse patients with psychiatric disorders, patients with fear, anxiety, phobias and pain, as well as review of the dentist's role in identifying and managing patients experiencing abuse (child abuse and intimate partner violence) and addiction disorders. Experiences with four standardized patients are scheduled to provide the foundational knowledge and skills in patient management with diverse and challenging patients. Motivational interviewing is discussed as a strategy for communication and management of change with patients.
0-2 Credit Hours

DENT 7200 Endodontics
0.25-2 Credit Hours

DENT 7201 Endodontics Clinic
0.25-2 Credit Hours

DENT 7202 Endodontics II Clinical Spring
The Department of Endodontics trains pre-doctoral students to become competent in basic endodontic procedures on vital and non-vital teeth. This course includes clinical instruction in diagnosis, treatment planning, treatment/obturation, post-endodontic restoration and related entities (bleaching of non-vital teeth, treatment of traumatic injuries, etc.). This instruction begins at the pre-clinical in the second year endodontic lecture series (670) and is expanded and reinforced in pre-doctoral laboratory course (672). Students present to the Endodontic Clinic to render care either on their own patients or on patients referred for endodontic emergencies. Case assignment will be handled by clinical faculty and the endodontic business office based on the AAE case difficulty guidelines. In a student's Endodontic Emergency rotation, they are instructed in the proper diagnosis and assessment of emergency cases, appropriate treatment (both emergency and scheduled appointment visits), pertinent paperwork and follow up of emergency patients. The pre-doctoral student, at the discretion of the faculty member on duty, may elect to retain the emergency patient for further treatment or, if the case is deemed too difficult or the student elects not to treat that particular patient, the appropriate referral to another pre-doctoral or a post- doctoral student is made. Regularly scheduled patients are treated in the Endodontic Clinic. Appointments are made by the treating students through the Endodontic Business Office. Supervision ranges from chair-side direct supervision for those students identified as having limited endodontic experience, to that of indirect supervision for those having completed more cases involving anterior and posterior teeth. Attending instructors consist of full- and part-time faculty members and second-year postgraduate endodontic residents assigned to teach in the Endodontic Clinic on a rotational basis. The overall supervision of the clinic on a specific day is the responsibility of the appointed "day chief" (a faculty member). Management and administration of the clinic and all related decisions are the shared responsibility of the pre-doctoral and post-doctoral directors. During Endodontic Clinic rotations, pre-doctoral students do not treat emergency dental trauma cases. Post-doctoral students will treat these patients through the Emergency Clinic and endodontic emergency.
0.25-2.25 Credit Hours

DENT 7300 Oral Medicine
0.25-3 Credit Hours

DENT 7301 Oral Medicine L
The purpose of this course is to give students a foundation for common oral lesions, facial pain, and salivary gland disease as well as an understanding of medical conditions which directly affect the oral and maxillofacial structures.
0.25-3 Credit Hours

DENT 7302 Admissions and Emergency II Clinical
The Admissions & Emergency Care Clinic rotation (13 rotations for juniors) consists of separate clinical rotations in the Emergency Care Clinic and the Oral Diagnosis (Admissions) Clinic. The Emergency Care Clinic provides emergency care to appointed and 'walk-in' non-registered patients. Emphasis is placed on efficient and thorough medical work-up and dental care to ensure that the patient receives the highest quality of emergency dental care in a timely manner. The dental students on rotation gain knowledge and experience in medical history aquisition, clinical pharmacology, general and specialty medicine, and physical examination, including a head and neck cancer examination and risk assessment, and emergency care of the dental patient. This also includes the appropriate selection and evaluation of radiography to assess the emergency. The Oral Diagnosis Clinic provides an initial evaluation for SDM patients who register for comprehensive dental care on an appointment basis. Students who rotate through the Oral Diagnosis Clinic assess the comprehensive medical and oral health status of the patients, gain knowledge of clinical pharmacology, general and specialty medical issues, associated laboratory and other studies. This also includes a head and neck cancer examination and risk assessment, and the taking of the indicated intra-oral and/or extra-oral dental radiographs. Additionally, the medical status of patients, when specifically designated by the faculty, is re-assessed annually, or other indicated frequency, in the Oral Diagnosis Clinic. Juniors must complete 10 H&P and 5 Emergencies. Oral Medicine faculty directly supervise all student activity with a faculty/student ratio of approximately 1:3.
Spring
0.5-3 Credit Hours

DENT 7322 Oral and Maxillofacial Medicine
The purpose of this course is to give students a foundation for common oral lesions, facial pain, and salivary gland disease as well as an understanding of medical conditions which directly affect the oral and maxillofacial structures.
0.25-3 Credit Hours

DENT 7340 Radiology I
Radiology I
0.25-3 Credit Hours

DENT 7341 Radiology Clinic/Seminar
Students are assigned 12-15 rotations in the Radiology Clinic during their third and fourth years. During these rotations, students take full-mouth x-ray series on newly admitted patients.
0.25-3 Credit Hours

DENT 7342 Radiology II Clinic Spring
Students are assigned 12-15 rotations in the Radiology Clinic during their third and fourth years. During these rotations, students take full-mouth x-ray series on newly admitted patients.
Spring
0.25-3.25 Credit Hours

DENT 7361 Clinical Oral Medicine & Personalized Care
The Medically Complex, Infectious Diseases and Special Disability Patient Care Clinical Course consists of ~4 half day rotations. Attendance is required to pass this course. Your clinical rotation experience will include at least one or more of the following: Admission Care (Initial Patient visits) provides an initial evaluation for medically complex, infectious disease and special needs patients who register for comprehensive dental care. Student doctors will be involved in the process of obtaining and assessing the comprehensive medical and oral health status of the patients. Students gain knowledge of clinical pharmacology, general and specialty medical issues including physical examination findings, associated laboratory medicine and other medical studies. The rotation also includes experience in performing an oral and extraoral exam such that the student is able to recognize deviations from normal findings and is able to perform a head and neck cancer examination and issue a risk assessment. The student will also gain radiological experience including the appropriate selection and taking of radiographs. Additionally, the student will select the frequency of updating the complete medical history of the patient based upon complexity or at a minimum recommending that the patient be reassessed bi-annually. Informed Consent: Informed consent must be completed for special needs patients prior to completing care. Student doctors will be expected to become familiar with identifying patients who need to have informed consents signed by guardians/parents/others prior to procedures. Medical Consult Requests for patients Not Medically Cleared –The medical consult request is the mechanism used to communicate with peers and other healthcare professionals when appropriate. Students are expected to become familiar with the process of completing medical consult requests, which include: requesting appropriate medical information, reviewing obtained information and coming up with a dental and medical management plan that is specific to the patient. Patient care - Successful dental treatment of special needs and medically complex patients, requires a thorough understanding of behavior management, internal medicine and how medical conditions can potentially complicate dental care. The PCare clinic trains you with effective strategies to prevent medical emergencies in a dental clinic, as well as how to behaviorally manage patients with special needs so as to make them comfortable with treatment in a dental clinic. This is achieved by having adequate knowledge of: behavioral management methods, frequent medical conditions; making necessary treatment adjustments and closely monitoring patients during dental treatment. In the case of a medical emergency, students are trained under the supervision of faculty to manage such emergencies.
Fall
0.5-1.25 Credit Hour

DENT 7362 Clinical Oral Medicine & Personalized Care II
The Medically Complex, Infectious Diseases and Special Disability Patient Care Clinical Course consists of ~4 half day rotations. Attendance is required to pass this course. Your clinical rotation experience will include at least one or more of the following: Admission Care (Initial Patient visits) provides an initial evaluation for medically complex, infectious disease and special needs patients who register for comprehensive dental care. Student doctors will be involved in the process of obtaining and assessing the comprehensive medical and oral health status of the patients. Students gain knowledge of clinical pharmacology, general and specialty medical issues including physical examination findings, associated laboratory medicine and other medical studies. The rotation also includes experience in performing an oral and extraoral exam such that the student is able to recognize deviations from normal findings and is able to perform a head and neck cancer examination and issue a risk assessment. The student will also gain radiological experience including the appropriate selection and taking of radiographs. Additionally, the student will select the frequency of updating the complete medical history of the patient based upon complexity or at a minimum recommending that the patient be re-assessed bi-annually. Informed Consent: Informed consent must be completed for special needs patients prior to completing care. Student doctors will be expected to become familiar with identifying patients who need to have informed consents signed by guardians/parents/ others prior to procedures. Medical Consult Requests for patients Not Medically Cleared –The medical consult request is the mechanism used to communicate with peers and other healthcare professionals when appropriate. Students are expected to become familiar with the process of completing medical consult requests, which include: requesting appropriate medical information, reviewing obtained information and coming up with a dental and medical management plan that is specific to the patient. Patient care - Successful dental treatment of special needs and medically complex patients, requires a thorough understanding of behavior management, internal medicine and how medical conditions can potentially complicate dental care. The PCare clinic trains you with effective strategies to prevent medical emergencies in a dental clinic, as well as how to behaviourally manage patients with special needs so as to make them comfortable with treatment in a dental clinic. This is achieved by having adequate knowledge of: behavioural management methods, frequent medical conditions; making necessary treatment adjustments and closely monitoring patients during dental treatment. In the case of a medical emergency, students are trained under the supervision of faculty to manage such emergencies.
Spring
0.25-2 Credit Hours

DENT 7401 Oral Surgery L
This lecture-based course provides students exposure to all aspects of the wide and varied scope of oral and maxillofacial surgery. The course promotes the integration of the basic sciences and medicine into the daily practice of oral and maxillofacial surgery and dentistry.
0.25-3 Credit Hours

DENT 7402 Oral Surgery L II
This lecture-based course provides students exposure to all aspects of the wide and varied scope of oral and maxillofacial surgery. The course promotes the integration of the basic sciences and medicine into the daily practice of oral and maxillofacial surgery and dentistry.
0.25-3 Credit Hours

DENT 7410 Introduction to Oral Surgery and Medical Emergencies
The course is designed to give the students an introduction to oral surgery and the exposure to prevention, recognition and management of medical emergencies. Occupational health hazards will also be discussed.
Summer Term
1-3 Credit Hours

DENT 7420 Oral Surgery and Pharmacology
This course is designed to give the student exposure to all aspects of the wide and varied scope of oral and maxillofacial surgery. The course also promotes the integration of the basic sciences and medicine into the daily practice of oral and maxillofacial surgery and dentistry. It builds upon and incorporates knowledge from many prerequisite courses, particularly the Pharmacology, Microbiology, and Anesthesia, Pain, and Anxiety courses. the student should be competent in the management of all aspects of oral and maxillofacial surgery as outlined above under the course goals. Lectures will be presented by faculty members of the department of Oral and Maxillofacial surgery. The lecture material and reading assignments are designed to be complementary. The examination will encompass material from both sources. The examination will include questions that reinforce the knowledge obtained by completion of the prerequisite courses of Pharmacology, Microbiology, and OMC V (Anesthesia, Pain, and Anxiety). Students should review the material from those courses as the final examination will contain questions from knowledge obtained by their completion.
Spring
0-3 Credit Hours

DENT 7421 Oral Surgery Clinic
Students perform uncomplicated exodontia and minor pre-prothetic surgical procedures that are approved by the clnical instructors, assist the instructors in complicated surgical procedures, and observe the administration of intravenous sedation and general anesthesia.
0.25-3 Credit Hours

DENT 7422 Oral Surgery II Clinic Spring
Students perform uncomplicated exodontia and minor pre-prothetic surgical procedures that are approved by the clnical instructors, assist the instructors in complicated surgical procedures, and observe the administration of intravenous sedation and general anesthesia.
0.25-3 Credit Hours

DENT 7461 Multidisciplinary Seminar
The main objective of this year-long seminar-based course is to ensure that students develop the ability to understand biomedical, behavioral and dental sciences and apply such information in a problem-solving context for the comprehensive treatment planning and management of their patients.
0.25-3 Credit Hours

DENT 7462 Multidisciplinary Seminar
The main objective of this year-long seminar-based course is to ensure that students develop the ability to understand biomedical, behavioral and dental sciences and apply such information in a problem-solving context for the comprehensive treatment planning and management of their patients.
Spring
0.25-3 Credit Hours

DENT 7501 Orthodontics II
0.25-3 Credit Hours

DENT 7502 Orthodontics II
The course will provide the student with experience in early orthodontic treatment, exposing him/her to malocclusions arising in a normally developing craniofacial complex. Management of these problems aims at providing an unimpeded eruption and alignment of the permanent dentition. Other topics include biological and mechanical principles of tooth movement as well as corrective orthodontics.
0.25-3 Credit Hours

DENT 7520 Ethics IIi
PEDM III focuses on responsibility transitioning into the post-graduation worldof dentistry and covers a variety of topics such as licensure, residency applications, completing graduation requirements, as well as mentorship and real-world clinical practice dilemmas.
0.25 Credit Hours

DENT 7521 P and I Clinic
Through clinical rotation, the student is exposed to patients with malocculsions that arise in a normally developing craniofacial complex. Management of theseproblems aims at providing an unimpeded eruption and alignment of dentition.
0.25-3.25 Credit Hours

DENT 7522 Preventive and Interceptive Orthodontics II Clinic
The Preventive and Interceptive Clinic rotation consists of seven sessions in the Orthodontic clinic. During each rotation, students are assigned a minimum of two hours in a clinical setting and an additional hour or more in seminar to review the day's cases and any additional treatment planning information (ie, cephalometrics, space analysis). Through these rotations, students are exposed to patients with malocclusions that arise in a normally developing craniofacial complex.
0.25-3 Credit Hours

DENT 7601 Pediatric Dentistry L/B
0-3 Credit Hours

DENT 7620 Pediatric Dentistry
0.25-2.5 Credit Hours

DENT 7621 Pediatric Dentistry Clin
0.25-2.5 Credit Hours

DENT 7622 Pediatric Dentistry II Clinical
The Pediatric Dentistry Clinic offers students the opportunity to learn clinical dentistry for children and adolescents. Students will treat children from different cultural and socioeconomic backgrounds and will receive experience in many aspects of Pediatric Dentistry, including but not limited to diagnosis, prevention, restorative dentistry, pulp therapy, routine oral surgery, management of the developing occlusion, and behavior guidance. Comprehensive care of the child is emphasized; however, patients are not typically assigned to students. Students are encouraged to speak to a clinic staff member one or two days prior to a rotation to obtain the name and telephone number of a patient whose appointment they may confirm themselves by telephone. Any patient who appears for a student- confirmed appointment will see that student. Students who wish to complete a patient's entire treatment plan may schedule to do so. Students may also have the opportunity to care for special needs children who are medically, physically, or emotionally compromised. Correlation between didactic and clinical courses is emphasized whenever possible and instruction in proper record completion and chart documentation is provided on a regular basis.
0.25-2.5 Credit Hours

DENT 7701 Periodontics L
This course is designed to acquaint the student practioner with the fundamentals of periodontal surgery necessary for the comprehensive practice of general dentistry. A major emphasis includes understanding the normal periodontium and a correlation of the events in the histopathology of inflammation, trauma and wound healing.
0.25-3 Credit Hours

DENT 7720 Periodontics
0.25-3 Credit Hours

DENT 7721 Periodontics Clinic
The Periodontics Clinic provides third year students the opportunity to treat patients with differences of severity in existing periodontal disease.
0.25-1.5 Credit Hour

DENT 7722 Periodontics Clinic
The Periodontics Clinic provides third-and fourth-year students the opportunity to treat patients with differences of severity in existing periodontal disease.
0.5-2.5 Credit Hours

DENT 7800 Partial Rem Dent Pros Lb
A combination of lectures, seminars and laboratory exercises provide the dental student with a fundamental understanding of the partially edentulous condition. Topics covered include classification, diagnosis, treatment planning and treatment of partially edentulous patients with RPDs. This course is designed to provide students with the terminology, concepts and principles necessary for case selection, design, construction of, and patient therapy with conventional RPDs. Upon completion of this course students will have the neccessary didactic knowledge to successfully understand and treat removable partial denture cases in conjunction with the clinical faculty during their third and fourth years.
0.75-4 Credit Hours

DENT 7810 Advanced Restorative Esthetics
This course is designed to introduce third year students to the current concepts and principles that comprise a modern perception of esthetics. Students will learn the diagnostic process, indications, contra-indications and limitations of modern materials along with techniques utilized in esthetic restorations. Students will perform and understand the techniques and procedures necessary for the completion of cases involving basic esthetic modalities utilized effectively in practice such as porcelain veneers, diastema closures, CAD/CAM technology, inlays and onlays.
Summer Term
0.75-2.5 Credit Hours

DENT 7821 Restorative Dentistry L
0.75-4 Credit Hours

DENT 7822 Restorative Dentistry II
Restorative Dentistry II
1.75-5 Credit Hours

DENT 7830 Complete Removable Dental Prosthesis
The goal of this course is to provide students with the foundation of knowledge needed to diagnose and treat edentulous patients. Students should be able to: 1. Recognize and define complete denture terminology deemed relevant in the classroom, course syllabus, and assigned readings. 2. Describe medical, emotional, and oral anatomic factors that aid in formulation of diagnostic considerations in the complete denture therapy. 3. Describe functional anatomy of the edentulous mouth. 4. Understand the clinical procedures performed during the construction of conventional complete dentures and during the maintenance phase of treatment. 5. List the fundamental clinical procedures performed during the construction of immediate complete dentures. 6.Understand the complete denture occlusion. Upon completion of this course, the students should have an in-depth understanding of: 1. The need for therapy in and restoration of the edentulous arch with complete protheses. 2. The significance of avoiding the edentulous condition in a patient wherever possible. 3. The dental materials that are used at the different stages of complete dentures therapy. 4. The concept and techniques of the clinical steps involved in the treatment of the edentulous patient.
0-5 Credit Hours

DENT 7840 Comprehensive Care III
Comprehensive Care III
3.5-6.5 Credit Hours

DENT 7841 Comprehensive Care C Fal
Comprehensive care is defined as the overall patient care delivery system that includes all dental services, including emergency care, treatment planning, general dentistry, specialty care, new patient admissions and maintenance programs. The delivery of such care revolves around the Primary Care Unit (PCU) Program, in which the Departments of Restorative Dentistry and Periodontics participate. Pre-doctoral students practice within one of six clinical groups within the Penn School of Dental Medicine. Within each unit, the students perform examination and diagnostic procedures, comprehensive treatment planning, all restorative dental procedures, fixed and removable prosthodontic procedures, including implant supported restorations, non-surgical periodontal procedures, and maintenance therapy, Faculty from the Department of Periodontics are also assigned to the units. Patient care is supervised and managed by the faculty in the PCU Program. The PCU leader is the final determinant in all Treatment Plans, Procedures and referrals within the PCU group.
4-7.5 Credit Hours

DENT 7842 Comprehensive Care C Spr
Comprehensive Care C Spr
4.5-7 Credit Hours

DENT 7861 Clinical Seminar
The seminar is an open forum discussion in which students make case presentations after which the diagnosis, treatment plan, and therapy are analyzed and evaluated. Initially, the PCU leader may present cases in order to establish the proper method of case presentation; thereafter, it is the student's responsibility to present thoroughly documented cases which include photographic slides of pretreatment, a complete dental and medical evaluation, study models, radiographs, and other pertinent data.
0.25-2 Credit Hours

DENT 7862 Clinical Seminars II
The seminar is an open forum discussion in which students make case presentations after which the diagnosis, treatment plan, and therapy are analyzed and evaluated. Initially, the PCU leader may present cases in order to establish the proper method of case presentation; thereafter, it is the student's responsibility to present thoroughly documented cases which include photographic slides of pretreatment, a complete dental and medical evaluation, study models, radiographs, and other pertinent data.
0.25-2 Credit Hours

DENT 7890 Restorative Microscopy III
The use of enhanced magnification with loupes is a widely accepted standard practice to perform restorative dentistry. The dental operating microscope can provide superior visual performance. For the endodontic specialty, the dental microscope has demonstrated significantly higher success rates compared to loupes. The success of endodontic therapy utilizing the dental microscope suggests that the dental clinician may achieve better outcomes with microscope implementation in restorative dentistry. This introductory course will provide each participant the ability to learn essential restorative microscope utilization techniques in combination with dental loupes for optimal precision dentistry.
Summer Term
0.25-1 Credit Hour

DENT 7912 Honors III
In line with PDM's vision to transform global oral health and well-being through exceptional clinical care, innovation, education, and research, the PDM Honors Course provides qualified students an enrichment experience designed to cultivate enhanced understanding of and a leadership outlook in Oral Health related disciplines. These disciplines include Basic and Translational Research, Clinical Dentistry, Clinical Research, Community Oral Health, Endodontics, Nutritional Sciences, Oral and Maxillofacial Surgery, Orthodontics, Pediatric Dentistry, Periodontics, Personalized Care, Radiology and Oral Medicine and Vulnerable Populations.
Spring
1.5-3.5 Credit Hours

DENT 7992 Selectives III
0.5-2.5 Credit Hours

DENT 8101 Health Promotion
Health Promotion Clinical experiences provide students with the opportunity to apply knowledge and develop competencies related to oral health promotion and diseas prevention activities with individual patients in the clinics at Penn Dental Medicine.
0.25-2 Credit Hours

DENT 8102 Health Promotion Practicum II
Health Promotion Clinical experiences provide students with the opportunity to apply knowledge and develop competencies related to oral health promotion and disease prevention activities with individual patients in the clinics at Penn Dental Medicine.
0.25-2 Credit Hours

DENT 8121 Community Oral Health
Community Oral Health Experiences in alternate oral health care delivery settings provide students with the opportunity to develop and expand their skills in providing comprehensive oral health care in community based settings under the direct supervision of faculty members. Students are scheduled in the mobile dental vehicle, PennSmiles, and are also scheduled at Community Volunteers in medicine, a community based medical and dental treatment facility in West Chester, PA. Students attend small group seminars to discuss their experiences and theoretical underpinnings of community oral health activities.
2-6 Credit Hours

DENT 8161 Professional Practitioner Development III
This 4th year course will cover the practice management topics a dentist needs to consider upon graduating from dental school, including leadership, career and business decisions, human relations/personnel issues, working in teams, issues of burnout and mentoring, handling medical errors, and an overview of relationships a dentist needs to develop with many different other types of professionals in the dental industry. 1. Describe the effective practice management principles, including financial, leadership and staff development, legal and risk management, and communication, necessary for successful dental practice. 2. Appraise legal contracts and employment situations for risk/benefit. 3. Explore basic financial principles relevant to clinical practice. 4. Understand how malpractice works in the United States and discuss best practices in risk management. Understand the role of the State Board of Dentistry in monitoring the dental professional. 5. Reflect on career goals and dental career trajectory.
0.5-3 Credit Hours

DENT 8162 Professional Practitioner III
We want this course to challenge you to grow personally and in how you interact with other members of the Penn community. We've designed it to help you prepare for difficult conversations--about race and racism, white supremacy, gender, and health inequities--in the classroom, your field work, clinical work, internships, and beyond. We anticipate you'll have a range of feelings while moving through the course. Be mindful of your reactions. Lean in to what you find new or uncomfortable, where you find yourself becoming defensive, where you feel your own resistance. Reach out to the course co-director Dr. Beverley Crawford beverlyc@upenn.edu if you want help processing what you are learning. You'll have a chance to share your feedback about the course at the end. You are also welcome to reach out to us via email with your thoughts and questions.
Spring
0.25-3 Credit Hours

DENT 8200 The Endodontic II Clinic
The Endodontic Clinic trains predoctoral students to become competent in basic endodontic procedures on vital and non-vital teeth. This includes instruction in diagnosis, treatment planning, treatment/obturation, post-endodontic restoration and related entities (bleaching of non-vital teeth, treatment of traumatic injuries, etc.). This instruction is expanded and reinforced in the fourth-year clinic.
0.25-2.25 Credit Hours

DENT 8201 The Endodontic Clinic
The Endodontic Clinic trains predoctoral students to become competent in basic endodontic procedures on vital and non-vital teeth. This includes instruction in diagnosis, treatment planning, treatment/obturation, post-endodontic restoration and related entities (bleaching of non-vital teeth, treatment of traumatic injuries, etc.). This instruction is expanded and reinforced in the fourth-year clinic.
0.25-2.5 Credit Hours

DENT 8202 The Endodontic II Clinic
The Endodontic Clinic trains predoctoral students to become competent in basic endodontic procedures on vital and non-vital teeth. This includes instruction in diagnosis, treatment planning, treatment/obturation, post-endodontic restoration and related entities (bleaching of non-vital teeth, treatment of traumatic injuries, etc.). This instruction is expanded and reinforced in the fourth-year clinic.
0.25-2.25 Credit Hours

DENT 8300 Oral Medicine
0.25-3 Credit Hours

DENT 8301 Admissions and Emergency
Admissions and Emergency The Admissions and Emergency Care Clinic rotation consists of combined rotations in the Emergency Care Clinic, and the Oral Diagnosis Clinic. The Emergency Care Clinic provides emergency care to "walk-in" non-registered patients. Emphasis is placed on efficient and thorough dental care to ensure that the patient receives the highest quality of emergency dental care in a timely manner. The Admissions or Oral Diagnosis Clinic provides an initial evaluation for Penn DentalMedicine patients who register for comprehensive care on an appointment basis. Students that rotate through the Oral Diagnosis Clinic assess the medical and oral health status of the patients. Additionally, the medical status of all patients (except ASA I patients) are reassessed annually in the Oral Diagnosis Clinic.
0.25-3 Credit Hours

DENT 8302 Admissions and Emergency II
Admissions and Emergency The Admissions and Emergency Care Clinic rotation consists of combined rotations in the Emergency Care Clinic, and the Oral Diagnosis Clinic. The Emergency Care Clinic provides emergency care to "walk-in" non-registered patients. Emphasis is placed on efficient and thorough dental care to ensure that the patient receives the highest quality of emergency dental care in a timely manner. The Admissions or Oral Diagnosis Clinic provides an initial evaluation for Penn Dental Medicine patients who register for comprehensive care on an appointment basis. Students that rotate through the Oral Diagnosis Clinic assess the medical and oral health status of the patients. Additionally, the medical status of all patients (except ASA I patients) are reassessed annually in the Oral Diagnosis Clinic.
Spring
0.25-3 Credit Hours

DENT 8340 Radiology IV
Radiology IV
0.25-3 Credit Hours

DENT 8341 Radiology Clinic
Students are assigned 12-15 rotations in the Radiology Clinic during their third and fourth years. During their rotations, they take full-mouth x-ray series on newly admitted patients who are sent to Radiology from the Admissions Clinic.
0.25-3 Credit Hours

DENT 8342 Radiology II Clinic
Students are assigned 12-15 rotations in the Radiology Clinic during their third and fourth years. During their rotations, they take full-mouth x-ray series on newly admitted patients who are sent to Radiology from the Admissions Clinic.
0.25-3 Credit Hours

DENT 8360 Personalized Care
The Medically Complex, Infectious Diseases and Special Disability Patient Care Clinical Course consists of ~20 half day rotations for the semester (~40 for the entire year). Each D4 student doctor is required to complete at least 2 med consult requests with interpretation of acquired medical information, 2 caries risk assessments and formulation of a personalized preventive regimen and 2 treatment modification plans (medical/behavioral/stabilization) during this semester. Initial patient visits provides an initial evaluation for medically complex, infectious disease and special needs patients who register for comprehensive dental care. Student doctors obtain and assess the comprehensive medical and oral health status of the patients. Students gain knowledge of clinical pharmacology, general and specialty medical issues including physical examination findings, associated laboratory medicine and other medical studies. The rotation also includes experience in performing an oral and extraoral exam such that the student is able to recognize deviations from normal findings, and is able to perform a head and neck cancer examination and issue a risk assessment. The student will also gain radiological experience including the appropriate selection and taking of radiographs. Additionally, the student will select the frequency of updating the complete medical history of the patient based upon complexity or at a minimum recommending that the patient be re-assessed annually. Medical consult requests for patients Not Medically Cleared – Each D4 student doctor is required to obtain at least 2 medical consults. The medical consult request is the mechanism used to communicate with peers and other healthcare professionals when appropriate. These will be formative experiences and are separate from what is required in Admissions. Each of the 2 formative experiences must include requesting necessary medical information, reviewing the obtained information and formulating a management plan specific for the patient in the context of the necessary dental treatment. Patient care - Successful dental treatment of patients with disabilities and complex medical histories requires a thorough understanding of behavior management, internal medicine and how medical conditions can potentially complicate dental care. The PCare clinic trains you with effective strategies to prevent medical emergencies in a dental clinic, as well as how to behaviourally manage patients with special needs so as to make them comfortable with treatment in a dental clinic. This is achieved by having adequate knowledge of: behavioural management methods, frequent medical conditions; making necessary treatment adjustments and closely monitoring patients during dental treatment. In the case of a medical emergency, students are trained under the supervision of faculty to manage such emergencies.
0.25-4.25 Credit Hours

DENT 8361 Personalized Care
The Personalized Care Suite (PCare) patient care clinical course consists of ~20 half day rotations for the semester (~40 for the entire year). D4 student doctors are assigned a panel of patient and provide comprehensive dental care for patients with disabilities (IDD), medical complexities (MCC) and HIV (ICC). D4 students will be assigned sessions to provide an initial virtual encounter visit with new patients prior to the patient's in person appointment. Each D4 student is required to complete at least one formative evaluation in each of three areas (medical risk assessment including acquisition and interpretation of medical information; disease risk assessement with the formulation of a personalized preventive regimen with followup assessment and a treatment modification plan that includes assessment, formulation, implementation and evaluation of medical/behavioral/stabilization modifications necessary to provide dental care. These are evaluated using forms in axiUm-evaluation criteria can be found on CANVAS as well as in the student manual. Additionally, there will be a written mock OSCE given in December that will require the formulation of medical assessment, disease prevention and treatment modifications for simulated patients. Initial patient visits: Student doctors are required to obtain (if possible) information prior to patient's first in person appointment. Patients will be given a virtual appointment whenever possible to allow the student to collect pertinent information during an assigned teledentistry session. Information collected will include medical information as well as competition of the PCare intake form (as applicable). This will allow time to obtain necessary medical information prior to patient's initial in person appointment in order to facilitate delivery of actual dental care at the first clinic visit. At the initial in patient visit, students will complete a comprehensive oral exam (including a through extra and intra oral soft tissue exam) as well as dental and periodontal examination. Appropriate radiographs selection, acquisition and interpretation will be completed as well. All clinical and radiographic findings (including existing restoration,caries, defective restorations, fractures) will be entered into the odontogram along with the periodontal findings. The entered information will be used for the formulation of treatment plans. Medical consult requests for patients Not Medically Cleared —The medical consult request is the mechanism used to communicate with peers and other healthcare professionals when appropriate. These will be formative experiences and are separate from what is required in Admissions. The formative experience must include requesting necessary medical information, reviewing the obtained information and formulating a management plan specific for the patient in the context of the necessary dental treatment. Patient care - Successful dental treatment of special needs and medically complex patients requires a thorough understanding of behavior management, internal medicine and how medical conditions can potentially complicate dental care. The PCare clinic trains you with effective strategies to prevent medical emergencies in a dental clinic, as well as how to behaviourally manage patients with special needs so as to make them comfortable with treatment in a dental clinic. This is achieved by having adequate knowledge of: behavioural management methods, frequent medical conditions; making necessary treatment adjustments and closely monitoring patients during dental treatment. In the case of a medical emergency, students are trained under the supervision of faculty to manage such emergencies
Fall
0.25-4.25 Credit Hours

DENT 8362 Personalized Care II
The Medically Complex, Infectious Diseases and Special Disability Patient Care Clinical Course consists of ~20 half day rotations for the semester (~40 for the entire year). Each D4 student doctor is required to complete at least 2 med consult requests with interpretation of acquired medical information, 2 caries risk assessments and formulation of a personalized preventive regimen and 2 treatment modification plans (medical/behavioral/stabilization) during this semester. Initial patient visits provides an initial evaluation for medically complex, infectious disease and special needs patients who register for comprehensive dental care. Student doctors obtain and assess the comprehensive medical and oral health status of the patients. Students gain knowledge of clinical pharmacology, general and specialty medical issues including physical examination findings, associated laboratory medicine and other medical studies. The rotation also includes experience in performing an oral and extraoral exam such that the student is able to recognize deviations from normal findings, and is able to perform a head and neck cancer examination and issue a risk assessment. The student will also gain radiological experience including the appropriate selection and taking of radiographs. Additionally, the student will select the frequency of updating the complete medical history of the patient based upon complexity or at a minimum recommending that the patient be re-assessed annually. Medical consult requests for patients Not Medically Cleared – Each D4 student doctor is required to obtain at least 2 medical consults. The medical consult request is the mechanism used to communicate with peers and other healthcare professionals when appropriate. These will be formative experiences and are separate from what is required in Admissions. Each of the 2 formative experiences must include requesting necessary medical information, reviewing the obtained information and formulating a management plan specific for the patient in the context of the necessary dental treatment. Patient care - Successful dental treatment of patients with disabilities and complex medical histories requires a thorough understanding of behavior management, internal medicine and how medical conditions can potentially complicate dental care. The PCare clinic trains you with effective strategies to prevent medical emergencies in a dental clinic, as well as how to behaviourally manage patients with special needs so as to make them comfortable with treatment in a dental clinic. This is achieved by having adequate knowledge of: behavioural management methods, frequent medical conditions; making necessary treatment adjustments and closely monitoring patients during dental treatment. In the case of a medical emergency, students are trained under the supervision of faculty to manage such emergencies.
0.25-3 Credit Hours

DENT 8370 Oral Medicine Clinical Rotation
The Oral Medicine Clinical Course consists of 5 rotations as assigned from the Office of Academic Affairs in the Summer, Fall, or Spring semesters of the Senior year (D4). Oral Medicine C includes evaluation of SDM patients with oral mucosal disorder(s), salivary gland disease(s), temporomandibular disorders, or facial pain. Student doctors obtain and assess the comprehensive medical and oral health status of the patients. Students gain knowledge of general and specialty medical issues including physical examination findings, associated laboratory medicine and other medical studies. The Oral Medicine clinical care rotation also includes experience in performing an intraoral and extraoral exam such that the student is to be able to recognize deviations from normal findings and perform a head and neck cancer examination and issue a risk assessment. Examination of the cranial nerves, temporomandibular joint, and masticatory muscles will be stressed when indicated by the patient's symptoms. The student will also gain experience in differential diagnosis, the appropriate selection and ordering of indicated laboratory tests, advanced imaging and initiating a medical consult request as a mechanism used to communicate with peers and other healthcare professionals when appropriate. Additionally, the student will select the frequency of clinical monitoring of the patient based upon the patient's complexity and clinical status. Upon completion of the Oral Medicine Clinical Rotation course, the student doctor will be able to: • Obtain all necessary subjective information from the patient including the chief complaint, history of present illness, medical history, and social and family history. • Perform a physical examination including both intraoral and head and neck examination in order to construct a differential diagnosis. • Perform an Oral Cancer Exam and Risk Assessment. • Identify those patients whose oral disease may indicate an underlying systemic disease. • Formulate a differential diagnosis and discuss possible treatment plans for the patient. • Obtain a medical and dental consultations and communicate with peers and other healthcare professionals when appropriate. • Utilize diagnostic and/or investigative modalities to enhance differential diagnosis of oral and maxillofacial pathologic conditions. • Recognize on a patient the normal range of clinical findings, recognize deviations, and establish a differential diagnosis for orofacial abnormalities and pathology. Recognize significant deviations that require monitoring, treatment, or management.
Fall
0.25-4.5 Credit Hours

DENT 8371 Oral Medicine Clinical Rotation
The Oral Medicine Clinical Course consists of 5 half-day rotations as assigned from the Office of Academic Affairs in the Summer, Fall, or Spring semesters of the Senior year (D4). During the fall semester, all students will be scheduled for one full day rotation. Oral Medicine C includes evaluation of SDM patients with oral mucosal disorder(s), salivary gland disease(s), temporomandibular disorders, or facial pain. Student doctors obtain and assess the comprehensive medical and oral health status of the patients. Students gain knowledge of general and specialty medical issues including physical examination findings, associated laboratory medicine and other medical studies. The Oral Medicine clinical care rotation also includes experience in performing an intraoral and extraoral exam such that the student is to be able to recognize deviations from normal findings and perform a head and neck cancer examination and issue a risk assessment. Examination of the cranial nerves, temporomandibular joint, and masticatory muscles will be stressed when indicated by the patient's symptoms. The student will also gain experience in differential diagnosis, the appropriate selection and ordering of indicated laboratory tests, advanced imaging and initiating a medical consult request as a mechanism used to communicate with peers and other healthcare professionals when appropriate. Additionally, the student will select the frequency of clinical monitoring of the patient based upon the patient's complexity and clinical status.
Fall
0.25-2.5 Credit Hours

DENT 8372 Oral Medicine Clinical Rotation
tbd
Spring
0.25 Credit Hours

DENT 8380 Hospital Assignment
During this course, D4 students participate in a two-week long hospital externship.
1.5-2.5 Credit Hours

DENT 8381 Hospital Assignment
Students spend four weeks in an extramural program at an affiliated hospital or a non-affiliated hospital program approved by Penn Dental Medicine. During the hospital rotation, students evaluate hospitalized patients to reinforce principles of physical and laboratory diagnosis, participate in dental treatment for patients with severe medical problems, and learn to request and answer consulatations from other clinical departments such as radiology and otolaryngology.
0.25-3 Credit Hours

DENT 8382 Hospital Assignment
Students spend four weeks in an extramural program at an affiliated hospital or a non-affiliated hospital program approved by Penn Dental Medicine. During the hospital rotation, students evaluate hospitalized patients to reinforce principles of physical and laboratory diagnosis, participate in dental treatment for patients with severe medical problems, and learn to request and answer consulatations from other clinical departments such as radiology and otolaryngology.
0.25-3 Credit Hours

DENT 8420 Clinical Oral Surgery
Clinical Oral Surgery
0.25-3 Credit Hours

DENT 8421 Oral Surgery Clinic
Students perform uncomplicated exodontia and minor pre-prosthetic surgical procedures that are approved the the clinical instructors, assist the instructors in complicated surgical procedures, and observe the administration of intravenous sedation and general anesthesia. The bulk of the students' clinical experience is delivered in a continous 2-week block. This type of experience enables students to better understand the delivery of surgical care.
0.25-3 Credit Hours

DENT 8422 Oral Surgery II Clinic
Students perform uncomplicated exodontia and minor pre-prosthetic surgical procedures that are approved by the clinical instructors, assist the instructors in complicated surgical procedures, and observe the administration of intravenous sedation and general anesthesia. The bulk of the students' clinical experience is delivered in a continous 2-week block. This type of experience enables students to better understand the delivery of surgical care.
Spring
0.25-3 Credit Hours

DENT 8520 Adjunctive Orthodontics I
The Orthodontics Clinic rotation is a required course for all fourth-year students. The students are required to observe the comprehensive orthodontic treatment screening, diagnosis, treatment planning, treatment progress, and treatment outcome evaluation to enhance their knowledge on malocclusion recognition and diagnosis, and to familiar themselves with varies of orthodontic appliances and instruments.
0.25-1 Credit Hour

DENT 8521 Adjunctive Orthodontics
Adjunctive orthodontic intervention involves the management of orthodontic problems prior to restorative treatment. Each student is required to complete the treatment of a clinical case which may involve the following: 1. repositioning teeth that have drifted after extraction or bone loss caused by periodontal disease. 2. forced eruption of broken teeth to expose sound root structure of which to place permanent restorations. 3. correction of crossbites which do not involve a skeletal discrepancy. 4. alignmnet of anterior teeth for more esthetic restorations.
0.25-2.5 Credit Hours

DENT 8522 Adjunctive Orthodontics II Clinic
Adjunctive orthodontic intervention involves the management of orthodontic problems prior to restorative treatment. Each student is required to complete the treatment of a clinical case which may involve the following: 1. repositioning teeth that have drifted after extraction or bone loss caused by periodontal disease. 2. forced eruption of broken teeth to expose sound root structure of which to place permanent restorations. 3. correction of crossbites which do not involve a skeletal discrepancy. 4. alignmnet of anterior teeth for more esthetic restorations.
Spring
0.25-2 Credit Hours

DENT 8620 Pediatric Dentistry
0.25-3 Credit Hours

DENT 8621 Pediatric Dentistry Clinic
The clinical course attempts to expose the student to many components of pediatric dentistry, including but not limited to diagnosis, prevention, restorative dentistry, pulp therapy, management of the developing occlusion, behavior guidance, and care of special children. Penn Dental Medicine competency statements, as they apply to children, adolescents, and special needs patients are teh focus. Competency examinations for this course relate to restorative dental care for the child patient.
0.25-3 Credit Hours

DENT 8622 Pediatric Dentistry II Clinical
The clinical course attempts to expose the student to many components of pediatric dentistry, including but not limited to diagnosis, prevention, restorative dentistry, pulp therapy, management of the developing occlusion, behavior guidance, and care of special children. Penn Dental Medicine competency statements, as they apply to children, adolescents, and special needs patients are teh focus. Competency examinations for this course relate to restorative dental care for the child patient.
0.25-3 Credit Hours

DENT 8720 Periodontics
0.25-3 Credit Hours

DENT 8721 Periodontics Clinic
The Periodontics Clinic provides fourth-year students the opportunity to treat patients with differences of severity in existing periodontal disease. In most cases, the patients afford the students adequate experiences and impart to them comprehensive knowledge of the tissues of the periodontium and the foundamental principles underlying the prevention and treatment of diseases that afflict the periodontal tissues.
0.25-1.5 Credit Hour

DENT 8722 Periodontics II C
The Periodontics clinic provides the fourth year students with the opportunity to treat patients with differences of severity in existing periodontal disease. In most cases, the patients afford the students with adequate experiences and impart to them comprehensive knowledge of the tissues of the periodontium and the fundamental principles underlying the prevention and treatment of diseases that affect the periodontal tissues. Periodontal therapy is an integral part of every patient's treatment at Penn Dental Medicine. Periodontal treatment is carried out in predoctoral and postdoctoral clinics.
0.25-2.5 Credit Hours

DENT 8840 Comprehensive Care VI
Comprehensive Care VI
3-6 Credit Hours

DENT 8841 Comprehensive Care VII
Fourth-year students, within their PCU groups, continue to perform examination and diagnostic procedures, comprehensive treatment planning, all restorative dental procedures, fixed and removable prosthodontic procedures, including implant supported restorations, non-surgical periodontal procedures, and maintenance therapy. The PCU program goal is to produce a practitioner who can integrate basic science knowledge with clinical proficiency in all phases of general dentistry, based on the concept of recognition and treatment of oral disease. Through experiences in alternate oral health care delivery settings, students have the opportunity to develop and expand their skills in providing comprehensive oral health care in community based settings under the direct supervision of faculty members. Students will be scheduled in block rotations for one day per week at one of our community sites.
8-13 Credit Hours

DENT 8842 Comprehensive Care II Clinical
Fourth-year students, within their PCU groups, continue to perform examination and diagnostic procedures, comprehensive treatment planning, all restorative dental procedures, fixed and removable prosthodontic procedures, including implant supported restorations, non-surgical periodontal procedures, and maintenance therapy. The PCU program goal is to produce a practitioner who can integrate basic scienc knowledge with clinical profiency in all phases of general dentistry, based on the concept of recognition and treatment of oral disease.
5-9 Credit Hours

DENT 8861 Clinical Seminar
The seminar is an open forum discussion in which students make case presentations, after which the diagnosis, treatment plan, and therapy are analyzed and evaluated. Initially, the PCU leader may present cases in order to establish the proper method of case presentation; therafter, it is the student's responsibility to present thoroughly documented cases which include photographic slides of pretreatment, a complete dental and medical evaluation, study models, radiographs, and other pertinent data.
0.25-2 Credit Hours

DENT 8862 Clinical Seminar II Spring
The seminar is an open forum discussion in which students make case presentations, after which the diagnosis, treatment plan, and therapy are analyzed and evaluated. Initially, the PCU leader may present cases in order to establish the proper method of case presentation; therafter, it is the student's responsibility to present thoroughly documented cases which include photographic slides of pretreatment, a complete dental and medical evaluation, study models, radiographs, and other pertinent data.
Spring
0.25-2 Credit Hours

DENT 8912 Honors IV
In line with PDM's vision to transform global oral health and well-being through exceptional clinical care, innovation, education, and research, the PDM Honors Course provides qualified students an enrichment experience designed to cultivate enhanced understanding of and a leadership outlook in Oral Health related disciplines. These disciplines include Basic and Translational Research, Clinical Dentistry, Clinical Research, Community Oral Health, Endodontics, Nutritional Sciences, Oral and Maxillofacial Surgery, Orthodontics, Pediatric Dentistry, Periodontics, Personalized Care, Radiology and Oral Medicine and Vulnerable Populations.
Spring
1.5-3.5 Credit Hours

DENT 8991 Selectives IV
The Penn Dental Medicine's Selectives Program enhances the predoctoral curriculum by allowing students to individualize their education to reflect their own professional interests. Students must complete this requirement in order to graduate.
0.25-1.5 Credit Hour