The Curriculum

The curriculum of the School of Dentistry is designed to be responsive to the needs of contemporary dental practitioners. This is exemplified in the School of Dentistry’s comprehensive patient care program.

Comprehensive Patient Care Program

The clinical curriculum of the School of Dentistry is based on a general practice model. The philosophy of this model is to provide quality comprehensive dental care without fragmentation into separate specialties or disciplines. Students learn to focus on the patient’s total dental needs rather than a single clinical procedure. The program that applies this philosophy is the Comprehensive Patient Care Program.

The Comprehensive Patient Care Program is patient centered and guided by general practice principles. This allows for easier integration of basic, behavioral and clinical science concepts in the delivery of patient care. One of the primary objectives of the Comprehensive Patient Care System is to build upon the principles the students have been exposed to during their training in the preclinical disciplines. Students are assigned to a Comprehensive Patient Management Group (CPMG), which is operated as a group practice. The group leader administers each CPMG and monitors the progress of each patient through his/her treatment plan. Students interact with support personnel modeled after a private practice setting. Dental assistants and additional faculty support complete the CPMG. Students collaborate with specialty disciplines, similar to a referral system used in private practice. Clinic treatment and instruction is designed to assure clinical competence in the various dental disciplines. Each D3 (third year) and D4 (fourth year) dental student is expected to demonstrate a satisfactory level of competency in the assigned CPMG and during block rotation assignments. Basic skills and mock board examinations allow the students the opportunity to demonstrate basic clinical knowledge and its application in the performance of patient treatment. Each CPMG holds regularly scheduled dental rounds sessions in which students present clinical cases and related issues of patient care.

Both first- and second-year students participate in CPMG activities, including dental rounds and are assigned to provide simple dental care to patients and to serve as dental assistants for third and fourth year students.

The curriculum enhances the development of interpersonal patient skills and the reinforcement of the moral and ethical standards of the dental profession. The School of Dentistry has a long record of treating the underserved throughout the state of Wisconsin, as well as reaching out to the community through both urban and rural community sites. These are integral parts of the students’ education and, as such, students are required to complete assigned rotations in order to graduate. These rotations include, but are not limited to, the Marquette University Community Dental Clinic in the city of Milwaukee, the Tri-County Community Dental Clinic in Appleton and the Chippewa Valley Technical College in Eau Claire. Students provide both preventive and clinical dental services to these underserved populations.

Note: All courses have initial discipline designators:

- DEIN = Dental Interdisciplinary courses
- DEGD = Dental General Dental Science courses
- DESS = Dental Surgical Science courses
- DEDS = Dental Developmental Science courses
- DECS = Dental Clinical Services courses
- BISC = Biomedical Sciences courses

Dentistry

First Year

First Term, Fall

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Total Credit Hours: 23
### Second Term, Spring

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**Total Credit Hours:** 25

### Summer Session (S-1)

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**Total Credit Hours:** 12

### Second Year

#### First Term, Fall

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<td>DESS 7212</td>
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**Total Credit Hours:** 23

### Second Term, Spring

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<td>Care of the Pediatric Patient</td>
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**Total Credit Hours:** 19
## Summer Session (S-2)

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<td>Digital Dentistry 2</td>
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<td>Introduction to Implants</td>
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**Total Credit Hours:** 14-16

## Third year

### First Term, Fall

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**Total Credit Hours:** 17

### Second Term, Spring

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<td>Clinical Radiology and Oral Pathology</td>
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**Total Credit Hours:** 17

### Summer Session (S-3)

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**Total Credit Hours:** 4-7
# Fourth Year

## First Term, Fall

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**Total Credit Hours:** 15-19

## Second Term, Spring

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**Total Credit Hours:** 12-16

## Biomedical Sciences Courses

### BISC 7410. Microbiology. 4 cr. hrs.
Focuses on infectious agents of human medical importance and on the host pathogen interaction. Topics include the general characteristics of bacteria, viruses, fungi and parasites as well as the etiology, pathogenesis, laboratory identification and epidemiology of selected diseases. Discusses control of microorganisms in terms of sterilization, disinfection, chemotherapy and immunization. Discusses the immune system and the immune response. Prereq: School of Dentistry.

### BISC 7514. Human Microanatomy. 4 cr. hrs.
A study of the microscopic structure of cells, tissues and organs of the human body. Emphasizes structure-function relationships and on the interaction of various cell types, tissues and organ systems. Includes laboratory. Prereq: School of Dentistry only.

### BISC 7515. Biomedical Systems 1. 3 cr. hrs.
 Provides an introduction to human anatomy of the head and neck region. Topics include the skull, temporomandibular joint, muscles of mastication and facial expression and an overview of the orbital and cervical regions. Structural and functional relationships between the cranial nerves and central neuroanatomical pathways are presented along with selected clinical correlations. Begins to build the foundational knowledge of the biomedical systems that is necessary for dental students as they start patient rounds during the first semester. Prereq: School of Dentistry.

### BISC 7516. Biomedical Systems 2. 4 cr. hrs.
A human gross anatomy course for dental students that integrates lecture with a cadaver dissection laboratory. Follows the neurocranial anatomy course with expanded topics and detailed dissections of the head and neck regions. Lectures and dissections of the thorax, abdomen and pelvis, along with lectures on the upper and lower extremities are included. Part of a biomedical systems course sequence integrating anatomy, physiology, pathology, and dental clinical correlates. Additional lab fee applies. Prereq: School of Dentistry only.

### BISC 7517. Biomedical Systems 3. 4 cr. hrs.
Module 3 of a systems-based course integrating anatomy, physiology and pathology including dental clinical correlates. Prereq: School of Dentistry only.

### BISC 7518. Biomedical Systems 4. 4 cr. hrs.
Module 4 of a systems-based course integrating anatomy, physiology and pathology including dental clinical correlates. Prereq: School of Dentistry only.

### BISC 7520. Dental Pharmacology. 4 cr. hrs.
Fundamentals of human pharmacology and basic principles dictating drug actions within the human body with emphasis on applications in dentistry. Focuses on the therapeutic actions and clinical applications of various drug classes. Topics include: cellular mechanisms, physiological responses, adverse reactions, drug-drug interactions, and clinical indications, accompanied by discussion on the pathological conditions for which common therapeutic agents are used. Applications of pharmacology commonly encountered by dentists are presented and are reinforced through interactive clinically correlated lectures presented by dental professionals. Prereq: School of Dentistry only.
BISC 7995. Independent Study in Biomedical Sciences. 1-6 cr. hrs.
Research on a selected topic under the direction of a faculty member of the Department of Biomedical Sciences. Can be taken for a maximum total of 6 credits, maximum of 3 credits can be applied towards BISC major.

**Dental Clinical Services Courses**

DECS 7310. Special Patient Care. 1 cr. hr.
An introduction to the multifaceted aspects of disabling conditions and their implications for oral health care. Conditions addressed include the developmental disabilities, sensory disability, cardiovascular and neuromuscular deficits. Emphasis is on clinical management of patients with such conditions. Aging is also studied in regard to the relationship between normal aging, chronic disease and oral health.

DECS 7314. Comprehensive Patient Care Practicum 1. 5 cr. hrs.
Third year dental students interact with members of the dental team and deliver care under circumstances which are similar to a large group practice. Dental students are expected to demonstrate a satisfactory level of proficiency in the assigned CPMG and during block rotation assignments. Each CPMG meets once weekly for general dental rounds where students present cases or topics and are asked to defend treatment-planning decisions with reference to the literature. Emphasis is placed on relatively simple restorations within the student's capabilities. Students are expected to perform clinically acceptable procedures on manikins in unguided situations as an assessment of competency. S/U grade assessment.

DECS 7320. Dental Practice Dynamics 1. 1 cr. hr.
Provides the student with an understanding of the dynamics of patient management and clinical practice systems that will allow them to effectively manage the practice environment. Topics include: the psychology of the clinic patient, effective appointment strategies, attracting clinic patients and creating ideal systems for the private practice among others. S/U grade assessment.

DECS 7324. Comprehensive Patient Care Practicum 2. 5 cr. hrs.
Builds on the initial Comprehensive Care Practicum, DECS 7314. Students are expected to provide clinical care across the various disciplines of dentistry. Each CPMG meets once weekly for a general dental rounds where students present cases or topics and are asked to defend treatment-planning decisions with reference to the literature. Emphasizes principles of cavity design for different direct restorative materials. Teaches indirect single tooth restorations, including cast gold, porcelain-fused-to-metal, and all-ceramic restorations. Basic skills competency exercises are required using both manikin and patient-based procedures. S/U grade assessment.

DECS 7334. Comprehensive Patient Care Practicum 3. 1-4 cr. hrs.
Continues the sequence of Comprehensive Patient Care Practicum. Students are expected to be able to deliver care more efficiently and to be able to handle more complex cases. Includes assessment of student experiences in community dental clinics and patient education experiences in schools and community health settings. S/U grade assessment.

DECS 7410. Dental Practice Dynamics 1. 1 cr. hr.
Builds on the initial course in the sequence, Dental Practice Dynamics 1, and provides the students with the background to be successful practitioners. Topics include: Creating a compelling philosophy of care, preparing for financial viability, leadership and change, the future of dental practice and developing the practice environment. S/U grade assessment.

DECS 7414. Senior Clinical Practicum in Comprehensive Patient Care 1. 1-5 cr. hrs.
The first of two advanced level courses in Comprehensive Care Dentistry, students are expected to demonstrate their ability to provide a broad range of dental services to patients requiring both relatively simple and more difficult care. Students are also expected to demonstrate their ability to diagnosis and treatment plan cases and present/defend them in the 4th year Dental Rounds. Students are also assessed on their community service involvement. S/U grade assessment.

DECS 7424. Senior Clinical Practicum in Comprehensive Patient Care 2. 1-5 cr. hrs.
The second of two advanced level courses in Comprehensive Care Dentistry, students are expected to demonstrate their ability to provide a broad range of dental services to patients requiring both relatively simple and more difficult care. Students are also expected to demonstrate their ability to diagnosis and treatment plan cases and present/defend them in the 4th year Dental Rounds. Students are also assessed on their community service involvement. S/U grade assessment.

DECS 7996. Extended Clinical Practice. 0 cr. hrs.
Allows students to fulfill clinical requirements necessary for graduation. Requires completion of all course work in D.D.S. program. SNC/UNC grade assessment.

**Dental Developmental Sciences Courses**

DEDS 7222. Orthodontic Principles and Techniques. 3 cr. hrs.
Designed to prepare the general dentist to recognize developmental issues and provide limited-focus "hands-on" orthodontic care for specific types of malocclusions in the permanent dentition including principles of impression making, clinical evaluation and diagnosis.

DEDS 7234. Developmental Sciences Introductory Clinical Practicum. 1 cr. hr.
Orientation of the student to the pediatric clinic. Students are introduced to operations and procedures regarding the clinical management and treatment of the child patient. S/U grade assessment. Prereq: Enrolled in the School of Dentistry.

DEDS 7310. Orthodontic Management. 1 cr. hr.
Stresses the complexities of comprehensive orthodontic treatment. Emphasizes road-based considerations in the diagnosis, treatment planning and provision of competent orthodontic care for resolving complex malocclusions. Focuses on the interaction between generalist and orthodontic specialist.
DEDS 7314. Developmental Sciences Clinical Practicum 1. 1 cr. hr.

DEDS 7324. Developmental Sciences Clinical Practicum 2. 1 cr. hr.
Provides continuing experience in the clinical management and treatment of the child patient. Includes experiences in minor tooth movement. Students may be assigned more complicated cases as their progress warrants. S/U grade assessment.

DEDS 7334. Developmental Sciences Clinical Practicum 3. 1 cr. hr.
Provides continuing experience in the clinical management and treatment of the child patient. Students may be assigned more complicated cases as their progress warrants. S/U grade assessment.

DEDS 7414. Senior Clinical Practicum in Developmental Sciences 1. 2 cr. hrs.
Provides advanced experience in the clinical management and treatment of the child patient. Includes caries management, sealant placement and application of fluorides. Also includes experiences in minor tooth movement and other Orthodontic procedures that are within the student's scope of care. S/U grade assessment.

DEDS 7424. Senior Clinical Practicum in Developmental Sciences 2. 2 cr. hrs.
Provides additional experiences in the clinical management and treatment of the child patient. Includes caries management, sealant placement and application of fluorides. Also includes experiences in minor tooth movement and other Orthodontic procedures that are within the student's scope of care. S/U grade assessment.

Dental General Science Courses

DEGD 7110. Introduction to Dental Disease and Diagnosis. 1 cr. hr.
Encompasses practical and clinical correlations of foundational restorative dentistry and biomaterials knowledge. Didactic lectures cover the biologic basis of operative dentistry, classification and measurement of dental caries, cariology and epidemiology. The laboratory portion emphasizes the introduction to dental materials/armamentarium and hand skill development in the field of operative dentistry.

DEGD 7113. Dental Anatomy and Occlusion 1. 2 cr. hrs.
Presents techniques to identify the proper name of deciduous or permanent teeth per quadrant, arch and in total. Students provide the proper or select the correct definition or description for any morphological structure presented in the sections covering general anatomy and anatomical structures. Students make applications of these terms to diagrams or situations and also perform laboratory exercises in which they duplicate the form and function of selected anterior and posterior teeth in wax as it relates to dental morphology of the teeth. Serves as the foundation for subsequent restorative dentistry courses, including the fixed prosthodontic and removable prosthodontic preclinical courses.

DEGD 7122. Preservation and Restoration of Tooth Structure 2. 3 cr. hrs.
This didactic and laboratory course introduces first year dental students to principles and dental biomaterials necessary for the preservation and restoration of a tooth that has been adversely affected by dental disease or other processes. In laboratory settings, students prepare artificial and natural teeth for different types of dental restorations. While hand skill development is emphasized, the importance of proper diagnosis and treatment planning, including material selection is also stressed. Serves as the foundation for subsequent restorative dentistry courses, including the fixed prosthodontic and removable prosthodontic preclinical courses.

DEGD 7123. Dental Anatomy and Occlusion 2. 2 cr. hrs.
Presents occlusion as part of the biomechanical system, emphasizing the mechanical relationships between anterior and posterior anatomy, anterior guidance and certain parameters of the jaw joint. Students perform laboratory exercises in which they duplicate the form and function of selected anterior and posterior teeth in wax as it relates to mandibular movement. Serves as the foundation for subsequent restorative dentistry courses, including the fixed prosthodontic and removable prosthodontic preclinical courses.

DEGD 7125. Preservation and Restoration of Tooth Structure 1. 3 cr. hrs.
Encompasses practical and clinical correlations of foundational restorative dentistry and biomaterials knowledge. Didactic lectures cover the biologic basis of operative dentistry, in addition to the principles of direct preparation and restoration placement for both dental amalgam and light-cured composite resin. Laboratory work emphasizes hand skill development in the area of operative dentistry for the adult patient.

DEGD 7134. Digital Dentistry 1. 2 cr. hrs.
Designed to build on the basic principles presented in the dental anatomy and the operative dentistry course. Consists of a series of lectures and laboratory projects. Presents various aspects of digital dentistry including intraoral/laboratory scanning, computer-aided design of dental restorations. Also introduces a basic concept of indirect partial coverage restorations (inlay/onlay).

DEGD 7135. Preservation and Restoration of Tooth Structure 2. 3 cr. hrs.
A continuation of DEGD 7125. Encompasses practical and clinical correlations of foundational restorative dentistry and biomaterials knowledge. Didactic lectures cover the biologic basis of operative dentistry, in addition to the principles of direct preparation and restoration placement for both dental amalgam, light-cured composite resins, glass ionomer-based materials and dental bonding systems. The laboratory emphasizes hand skill development in the area of operative dentistry for the adult patient.

DEGD 7212. Preclinical Fixed Prosthodontics 1. 3 cr. hrs.
Builds on the basic principles presented in the introduction course RESC 516. Principles of various retainer preparations, impressions, and master casts with removable dies are taught. Also covered, are provisional restorations, pontic designs and bridge assembly. Emphasis is on simulation of all clinical and laboratory procedures.
DEGD 7213. Preclinical Removable Prosthodontics 1. 4 cr. hrs.
Introduces students to both the clinical and laboratory steps necessary to fabricate complete maxillary and mandibular conventional dentures for the edentulous patient. Students perform all the steps from diagnosis through post-placement management in a patient-simulation environment. A newly designed edentulous dentoform is fabricated to be utilized. Designed as a manikin-based course in a state-of-the-art simulation lab. Emphasizes the reasons for complete denture therapy, the sequence of care and the importance of specific procedures for patient management. The goal is to prepare students for their individual experiences in complete denture prosthetics.

DEGD 7215. Preservation and Restoration of Tooth Structure 3. 3 cr. hrs.
A continuation of DEGD 7135, encompasses practical and clinical correlations of foundational restorative dentistry and biomaterials knowledge. Didactic lectures cover the biologic basis of operative dentistry, in addition to the principles of direct preparation and restoration placement for dental amalgam, composite resins, glass ionomer based materials and dental bonding systems. Laboratory work emphasizes hand skill development in the area of operative dentistry and fixed prostodontics for the adult patient. Students are taught the fundamentals of direct and indirect preparations and restorations.

DEGD 7222. Preclinical Fixed Prosthodontics 2 and Clinical Occlusion. 3 cr. hrs.
Students complete manikin based fixed prostodontic projects. Functional anatomy and physiology of the masticatory system are introduced as it relates to the biomechanics of jaw movement. This is correlated with a hands-on component where the students perform an analysis of occlusion of a patient. The student performs all aspects of an occlusal analysis including fabrication of diagnostic casts articulated in centric relation, analysis of functional occlusion, and selective grinding of casts.

DEGD 7223. Preclinical Removable Prosthodontics 2. 2 cr. hrs.
A continuation of DEGD 7213; introduces students to the clinical and laboratory steps necessary to fabricate removable partial dentures for a patient. Students perform all the steps from diagnosis through post-placement management in a patient-simulation environment. A newly designed edentulous dentoform is fabricated to be utilized. Designed as a manikin-based course in a state-of-the-art simulation lab. Emphasis is on placement and treatment planning, selection of correct abutment teeth, analysis of occlusal relationships, surveying and design.

DEGD 7234. Digital Dentistry 2. 2 cr. hrs.

DEGD 7310. Clinical Restorative Procedures 1. 2 cr. hrs.
Builds on the material presented in the preclinical restorative dentistry courses. Includes contemporary clinical techniques for intracoronal restoration, restorative of endodontically treated teeth, treatment planning and design for fixed partial dentures and diagnosis and clinical techniques for complete and removable partial dentures. Also presents a significant applied dental biomaterials segment.

DEGD 7320. Clinical Restorative Procedures 2. 1 cr. hr.
A continuation of DEGD 7310 with emphasis on clinical techniques for fixed partial dentures. Builds on the restorative techniques section of DEIN 7230, Introduction to Implants.

DEGD 7324. Prosthodontic Clinical Practicum 1. 3 cr. hrs.
Provides the student's initial experience with the disciplines of Fixed and Removable Prosthodontics. Stresses basic principles, concepts and techniques used to treat complete and partially edentulous patients. Students provide crowns, fixed partial dentures, removable partial dentures and complete dentures to patients according to their physiological, structural and psychological needs under direct supervision of prosthodontic specialists. S/U grade assessment. Prereq: Successful completion of the Prosthodontics Pre-clinical laboratory courses.

DEGD 7330. Clinical Restorative Procedures 3. 2 cr. hrs.
Third and final course in the Restorative Dentistry Clinical continuum. Focuses mainly on the management of TMD problems and occlusion in general practice.

DEGD 7414. Senior Clinical Practicum in Prosthodontics 1. 4 cr. hrs.
Provides students with advanced experience in the disciplines of Fixed and Removable Prosthodontics. Stresses the principles, concepts and techniques used to treat complete and partially edentulous patients. Students provide appropriate prosthodontic care to patients according to the patient's physiological, structural and psychological needs under direct supervision of prosthodontic specialists. S/U grade assessment. Prereq: Satisfactory completion of first three years of dental curriculum or equiv.

DEGD 7424. Senior Clinical Practicum in Prosthodontics 2. 4 cr. hrs.
Continuation of DEGD 7414. Provides the students with additional advanced experience in the disciplines of Fixed and Removable Prosthodontics. Stresses the principles, concepts and techniques used to treat complete and partially edentulous patients. Students provide appropriate prosthodontic care to patients according to the patient's physiological, structural and psychological needs under direct supervision of prosthodontic specialists. S/U grade assessment. Prereq: Satisfactory completion of first three years of dental curriculum or its equiv.
Dental Interdisciplinary Courses

DEIN 7110. Foundations of Oral Health 1. 3 cr. hrs.
The goal of this colloquia sequence is to provide dental students with a comprehensive overview of the contemporary practice of dentistry and to initiate them in an educational process that will culminate with their entry into the profession. Inter-disciplinary discussions about what dentists actually do when serving patients with a broad range of health problems are used to introduce students to the knowledge, skills, and experience that are fundamental to the delivery of modern oral health care. Emphasis is placed on common disease processes that affect the oral cavity, key aspects of clinical decision making, contemporary treatment modalities. The colloquia are closely coordinated with and complement preclinical laboratory technique courses given in the first and second years.

DEIN 7111. Oral Biology 1. 2 cr. hrs.
The first of a two-part series. Covers the biology of the oral cavity and associated structures. Includes a comprehensive study of histology (microanatomy). Microscopic appearances of developing and mature structures are observed. Clinical cases illustrating normal and abnormal oral conditions are used to bring clinical relevance to the areas under study.

DEIN 7114. Introduction to Clinical Practice 1. 3 cr. hrs.
The first course in the clinical practice sequence has been designed to provide fundamental knowledge, skills, and experience that will enable first year students to become directly involved in interactions with patients. Upon completion of DEIN 7114-7134, dental students will have sufficient working knowledge of infection control, how to interact with patients, dental radiography, dental assisting, and related topics to be able to play a meaningful part in the delivery of oral health care to patients. In addition to providing opportunities for direct contact between students and patients, sessions that allow students to work in laboratory and clinical settings with instruments and equipment integral to modern clinical practice are an important part of DEIN 7114-7134. Students are provided an extensive laboratory experience in periodontics which prepares them to deliver oral prophies and basic scaling of teeth. Students must receive a passing grade in this section of the course to receive a passing grade for the entire course. S/U grade assessment.

DEIN 7117. Research Practicum 1. 1 cr. hr.
This elective course provides structured research experience in the biomedical, clinical or behavioral sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. S/U grade assessment. Prereq: Cons. of instr.

DEIN 7118. Dental Rounds 1. 1 cr. hr.
Dental Rounds consist of student driven, case-based presentations that are both multidisciplinary and clinically relevant. Students relate concepts learned in the basic sciences, oral medicine and pathology, general pathology and physiology to clinical dental correlates and comprehensive treatment planning. Rounds provide an opportunity for students to develop critical thinking and problem solving skills while expanding their dental knowledge base. D1 students are responsible for an assigned basic science aspect of the case and work as a member of the integrated D1-D4 team.

DEIN 7120. Foundations of Oral Health 2. 3 cr. hrs.
The goal of this colloquia sequence is to provide dental students with a comprehensive overview of the contemporary practice of dentistry and to initiate them in an educational process that will culminate with their entry into the profession. Inter-disciplinary discussions about what dentists actually do when serving patients with a broad range of health problems are used to introduce students to the knowledge, skills, and experience that are fundamental to the delivery of modern oral health care. Emphasis is placed on common disease processes that affect the oral cavity, key aspects of clinical decision making, contemporary treatment modalities. The colloquia are closely coordinated with and complement preclinical laboratory technique courses given in the first and second years. This is a continuation of DEIN 7110.

DEIN 7121. Oral Biology 2. 2 cr. hrs.
The second of a two-part series. Covers the biology of the oral cavity and associated structures. Includes a comprehensive study of histology (microanatomy), the oral microflora and oral immunology. Microscopic appearances of developing and mature structures are observed. Emphasizes the interaction between oral ecological forces and the acquisition and diversity of the oral microflora. Studies, in detail, microorganisms known to be or suspected of being involved in various oral pathoses. Emphasis is placed on destructive inflammatory conditions of the periodontium and dental caries.

DEIN 7124. Introduction to Clinical Practice 2. 2 cr. hrs.
Continuation of DEIN 7114. S/U grade assessment.

DEIN 7127. Research Practicum 2. 1 cr. hr.
This elective course provides structured research experience in the biomedical, clinical or behavioral sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the second of a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.

DEIN 7128. Dental Rounds 2. 1 cr. hr.
This Dental Rounds course continues student driven, case-based presentations that are both multidisciplinary and clinically relevant. Students relate concepts learned in the basic sciences, oral medicine and pathology, general pathology and physiology to clinical dental correlates and comprehensive treatment planning. Rounds provide an opportunity for students to develop critical thinking and problem solving skills while expanding their dental knowledge base. D1 students are responsible for an assigned basic science aspect of the case and work as a member of the integrated D1-D4 team.
DEIN 7130. Oral Medicine and Diagnosis 1. 4 cr. hrs.
The first in a sequence of courses that provides the framework for diagnosis and evaluation of the dental patient. It deals with physical evaluation including basic interviewing skills, taking a comprehensive medical history, taking and evaluating vital signs, ordering appropriate laboratory tests and an overview of infectious diseases. Students learn where modification of dental treatment is necessary in the presence of various systemic diseases and conditions. Basic radiographic interpretation is introduced, as well as rudiments of dental pharmacology.

DEIN 7134. Introduction to Clinical Practice 3. 2 cr. hrs.
The extension of DEIN 7114 and 7124 allows the student to gain broader patient care experience, particularly in periodontal therapy, as well as; receiving more background knowledge in dental radiology. S/U grade assessment.

DEIN 7137. Research Practicum 3. 1-3 cr. hrs.
This elective course provides structured research experience in the biomedical, clinical or behavioral sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the third of a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.

DEIN 7138. Dental Rounds 3. 1 cr. hr.
Dental Rounds during the summer session assist and guide students in treatment planning with moderate or complex cases which have been approved by the group leader. Students prepare for treatment planning rounds by having completed the comprehensive exam, study models, oral medicine clearance and radiographic survey in addition to a preliminary treatment plan. Ideally, the patient would be present for the session as well. D1 students will be present for observation and questions or suggestions and assist team leader with presentation of the case.

DEIN 7140. Oral Medicine and Diagnosis 2. 2 cr. hrs.
Continuation of the Oral Medicine and Diagnosis sequence. It includes behavioral and pharmacological management of the patient including anxiety and pain management. The student is also exposed to basic diagnostic procedures including taking an appropriate patient history, patient interviewing, selection and application of radiographs and conducting a comprehensive oral examination. The student will also be introduced to identification of oral lesions.

DEIN 7142. Introduction to Clinical Practice 4. 1 cr. hr.
Covers basic clinical knowledge as a prerequisite to clinical practice. Sophomore dental students will perform simple clinical procedures on patients in a comprehensive patient management group setting, and demonstrate an understanding of the various disciplines in providing comprehensive care. S/U grade assessment.

This elective course provides structured research experience in the biomedical, clinical or behavioral sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the fourth of a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.

DEIN 7145. Dental Rounds 4. 1 cr. hr.
Dental Rounds consist of student driven, case-based presentations that are both multidisciplinary and clinically relevant. Students relate concepts learned in the basic sciences, oral medicine and pathology, general pathology and physiology to clinical dental correlates and comprehensive treatment planning. Rounds provide an opportunity for students to develop critical thinking and problem solving skills while expanding their dental knowledge base. D2 students are responsible for an assigned pathology aspect of the case and work as a member of the integrated D1-D4 team.

DEIN 7147. Care of the Pediatric Patient. 2 cr. hrs.
Designed to provide a comprehensive overview of pediatric dentistry by integrating several clinical disciplines. It will prepare the general dentist to provide dental care to children from infancy to early adolescence. The course includes topics focused on the pediatric patient such as: diagnosis and treatment planning, child abuse and neglect, orthodontic diagnosis and treatment in the mixed dentition, non-pharmacological behavior management, trauma, gingival and periodontal disease, growth and development, oral surgery, management of the medically compromised/disabled, oral pathology and hospital dentistry among others.

DEIN 7150. Oral Medicine and Diagnosis 3. 2 cr. hrs.
Continuation of the Oral Medicine and Diagnosis sequence. Includes behavioral sciences and advanced treatment planning of the patient. Examines the details of the systemic, definitive and maintenance phases of treatment, mainly through small workshops. Students interact and brainstorm different cases in order to finalize treatment plans for any patient. Students discover the importance of an effective case presentation and identify the parts of a case presentation from a communication perspective.

DEIN 7152. Intermediate Clinical Practice. 3 cr. hrs.
Sophomore dental students will perform simple and intermediate clinical procedures on patients in a comprehensive patient management group setting. Provides the transition between simple clinical practice and full clinical care privileges. S/U grade assessment.

DEIN 7158. Research Practicum 5. 1-2 cr. hrs.
This elective course provides structured research experience in the biomedical, clinical or behavioral sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the fifth of a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.
DEIN 7228. Dental Rounds 5. 1 cr. hr.
This Dental Rounds course continues student driven, case-based presentations that are both multidisciplinary and clinically relevant. Students relate concepts learned in the basic sciences, oral medicine and pathology, general pathology and physiology to clinical dental correlates and comprehensive treatment planning. Rounds provide an opportunity for students to develop critical thinking and problem solving skills while expanding their dental knowledge base. D2 students are responsible for an assigned pathology aspect of the case and work as a member of the integrated D1-D4 team.

DEIN 7230. Introduction to Implants. 3 cr. hrs.
Includes a comprehensive overview of diagnosing, treatment planning, surgical placement, restoring and maintaining of dental implants. Students will plan and restore a single implant supported crown and a two implant retained overdenture. Emphasis will be on pre-clinical simulation of clinical and laboratory procedures required for successful implant restoration.

DEIN 7231. Professionalism 1: Community Dentistry. 1 cr. hr.
Introduces students to the relationships and obligations that the dental profession and practitioners have to the entire community. Covers professionalism, service learning and dental public health topics (e.g., dental workforce, dental care financing, access to dental care, community preventive programs, health economics). Includes an interactive session on the dental professions' role in advocating for optimal oral health for the whole population. Prereq: Enrolled in the School of Dentistry.

DEIN 7234. Clinical Dental Practice. 1-3 cr. hrs.
In this course, students interact with the dental team and deliver dental care under circumstances which are similar to a large group practice. Following a selection of patients by the group leader, a wide range of patients is assigned, assuring a broad clinical experience in general dentistry. Student progress is closely monitored and is measured by daily performance assessments and several competency examinations. S/U grade assessment.

DEIN 7237. Research Practicum 6. 1-3 cr. hrs.
This elective course provides structured research experience in the biomedical, clinical or behavioral sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the sixth of a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.

DEIN 7238. Dental Rounds 6. 1 cr. hr.
Dental Rounds during the summer session assist and guide students in treatment planning with moderate or complex cases which have been approved by the group leader. Students prepare for treatment planning rounds by having completed the comprehensive exam, study models, oral medicine clearance and radiographic survey in addition to a preliminary treatment plan. Ideally, the patient would be present for the session as well. D2 students will be present for observation and questions or suggestions and assist team leader with presentation of the case.

DEIN 7239. Basic and Pre-Clinical Science Review. 2 cr. hrs.
Provides a comprehensive review of the various basic science and selected preclinical (pathology and dental anatomy) courses. Presents an overview of these areas focused on their application to the practice of dentistry. Designed to prepare students for the Part I National Board Examinations. S/U grade assessment.

DEIN 7310. Professionalism 2: Ethics and Jurisprudence. 1 cr. hr.
Introduces students to the relationships and obligations that the dental profession and practitioners have to the entire community. Aids students in developing personal and professional standards governing their interactions with patients, peers and the public. Concentrates on demonstrating how legal guidelines and ethical codes, principles and reasoning can help a professional understand and act on their obligations to the community. Prereq: Enrolled in the School of Dentistry.

Provides structured research experience in the biomedical, clinical or behavioral sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the seventh of a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.

DEIN 7318. Dental Rounds 7. 1 cr. hr.
Dental Rounds consist of student driven, case-based presentations that are both multidisciplinary and clinically relevant. Students relate concepts learned in the basic sciences, oral medicine and pathology, general pathology and physiology to clinical dental correlates and comprehensive treatment planning. Rounds provide an opportunity for students to develop critical thinking and problem solving skills while expanding their dental knowledge base. D3 students are responsible for an assigned evidenced based (PICO) aspect of the case and work as a member of the integrated D1-D4 team.

DEIN 7320. Clinical Radiology and Oral Pathology. 2 cr. hrs.
The object of this course is to present the various clinical, histopathologic and radiographic appearance of oral pathologies. Emphasis will be placed on differential diagnosis and the correlation between clinical, microscopic and radiographic findings. In addition, the student will be introduced to advanced imaging modalities as they relate to the head and neck.

Provides structured research experiences in the Biomedical, Clinical or Behavioral Sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the eighth in a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.
DEIN 7326. Dental Rounds 8. 1 cr. hr.
This Dental Rounds course continues student driven, case-based presentations that are both multidisciplinary and clinically relevant. Students relate concepts learned in the basic sciences, oral medicine and pathology, general pathology and physiology to clinical dental correlates and comprehensive treatment planning. Rounds provide an opportunity for students to develop critical thinking and problem solving skills while expanding their dental knowledge base. D3 students are responsible for an assigned evidenced based (PICO) aspect of the case and work as a member of the integrated D1-D4 team.

DEIN 7330. Foundations of Professional Development. 2 cr. hrs.
Capstone course within the curriculum for instruction on professionalism. It combines the areas of ethics, jurisprudence, service learning and public health into professionalism themes and engages students in interactive learning. Themes are built around the American Dental Association's Principles of Ethics and Code of Professional Conduct, including such topics as: Respect for Autonomy, Beneficence, Nonmaleficence, Justice and Veracity. The interplay between professional obligations, social justice and the law is emphasized in the course, with the goal of fostering a culture of professionalism among future dental healthcare providers.

Provides structured research experiences in the Biomedical, Clinical or Behavioral Sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the ninth in a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.

DEIN 7338. Dental Rounds 9. 1 cr. hr.
Dental Rounds during the summer session assist and guide students in treatment planning with moderate or complex cases which have been approved by the group leader. Students prepare for treatment planning rounds by having completed the comprehensive exam, study models, oral medicine clearance and radiographic survey in addition to a preliminary treatment plan. Ideally, the patient would be present for the session as well. D3 students serve as team leader and are responsible for selection and presentation of the case and treatment plan.

DEIN 7410. Senior Colloquium 1. 1 cr. hr.
Provides an opportunity for Senior students to select from a variety of short-term experiences of varying advanced content. Selections are available from most of the specialty areas of dentistry and from other content areas that may be helpful in the practice of dentistry.

Provides structured research experiences in the Biomedical, Clinical or Behavioral Sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the tenth in a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.

DEIN 7418. Dental Rounds 10. 1 cr. hr.
Dental Rounds consist of student driven, case-based presentations that are both multidisciplinary and clinically relevant. Students relate concepts learned in the basic sciences, oral medicine and pathology, general pathology and physiology to clinical dental correlates and comprehensive treatment planning. Rounds provide an opportunity for students to develop critical thinking and problem solving skills while expanding their dental knowledge base. D4 students are responsible for selection and presentation of case and for leadership of the D1-D4 student team.

Provides structured research experiences in the Biomedical, Clinical or Behavioral Sciences. Under the guidance of a faculty mentor, the student will design and/or carry out research projects of appropriate difficulty and scope based on the student's ability. This is the eleventh in a series of possible practicum experiences in research. S/U grade assessment. Prereq: Cons. of instr.

DEIN 7428. Dental Rounds 11. 1 cr. hr.
This Dental Rounds continues student driven, case-based presentations that are both multidisciplinary and clinically relevant. Students relate concepts learned in the basic sciences, oral medicine and pathology, general pathology and physiology to clinical dental correlates and comprehensive treatment planning. Rounds provide an opportunity for students to develop critical thinking and problem solving skills while expanding their dental knowledge base. D4 students are responsible for selection and presentation of case and for leadership of the D1-D4 student team.

DEIN 7550. Remediation in Dentistry. 6 cr. hrs.
Remediation is an individualized program of study designed to remedy specific academic deficiencies; therefore, it may take a variety of forms. Students who earn grades of F or U in didactic courses and have a minimum GPA of 1.810 or higher may be eligible for remediation. Eligibility for remediation is at the sole discretion of the Academic Progress Committee and the associate dean for academic affairs. The specific remediation needs are determined by the course director and the method(s) of remediation are those determined by the course director, in consultation with the associate dean for academic affairs. 0 credit will be SNC/UNC grade assessment, 1-6 credit will be S/U grade assessment. Prereq: Cons. of dept. ch. and associate dean for academic affairs.

DEIN 7931. Topics in Dentistry. 1-3 cr. hrs.
Taught occasionally when there is need to add a topic of current interest to the curriculum.

DEIN 7932. Advanced Topics in Dentistry. 1-3 cr. hrs.
Taught occasionally when there is need to add a topic of current interest to the curriculum.

DEIN 7995. Independent Study in Dental Interdisciplinary. 1-3 cr. hrs.
Faculty-supervised, independent study/research of a specific area or topic in Interdisciplinary Dental. Prereq: Cons. of academic dean.
Dental Surgical Science Courses

DESS 7210. Clinical Periodontal Therapy. 1 cr. hr.
Exposes the student, in a more specific and in-depth manner to the fundamental information that was covered in earlier courses. Discusses the diagnosis, pathogenesis and treatment of periodontal diseases. Students learn the principles, indications, contraindications and techniques for each periodontal surgical procedure and appropriate follow-up care. An emphasis will be placed on recognizing appropriate case selection and acceptable end points of therapy.

DESS 7211. Introduction to Endodontics. 2 cr. hrs.
This is a combined pre-clinical lecture and laboratory course. The lecture portion is designed to introduce the student to the fundamentals of endodontics. The rationale and scope of endodontology is covered as well as internal anatomy, endodontic materials, diagnosis, treatment planning, apseesis and the interrelationship of histopathology and microbiology with endodontics. The laboratory portion introduces the student to the clinical skills necessary to perform root canal treatment on single and multi-rooted teeth. Special emphasis is placed on coronal access, cleaning and shaping and obturation of the root canal system. Simulated clinical conditions are utilized on extracted and plastic teeth.

DESS 7212. Oral and Maxillofacial Pathology. 4 cr. hrs.
Integrates oral and maxillofacial pathology into the diagnostic process and involves the study of the diseases and abnormalities of the oral cavity and adjacent regions, including their etiology, epidemiology, clinical and radiographic features, diagnosis, treatment and prognosis.

DESS 7230. Emergency Medical Interventions. 1 cr. hr.
Provides the basic information needed to handle medical emergencies in the clinical dental setting. Topics include administration of emergency drugs, identification of patient stress, CPR and advanced support techniques.

DESS 7231. Foundations of Oral and Maxillofacial Surgery. 1 cr. hr.
Provides students with the basic surgical knowledge to render the procedures provided by the general practitioner including foundations in special examination, diagnosis and treatment planning for dentoalveolar surgery, and medicolegal issues dealing with oral and maxillofacial surgery. Students assess and provide outcomes, manage minor complications, and provide both routine and special post operative care. Medications commonly used in oral surgery will be presented with regards to selection, dosage administration and prescription writing.

DESS 7234. Surgical Sciences Introductory Clinical Practicum. 1 cr. hr.
Orientation of the student to the Surgical Sciences rotations. Students are introduced to operations and procedures regarding the clinical treatment of patients with needs in the areas of periodontal therapy, endodontics, oral surgery and/or pathology.

DESS 7310. Intermediate Oral and Maxillofacial Surgery. 1 cr. hr.
Continues the basic course in dentoalveolar surgery to include diagnosis, treatment and post operative care for patients presenting with complications of severe nature, a need for preprosthetic surgery in conjunction with exodontia, contemporary implant surgery, odontogenic infections, complex radiation and chemotherapy patients with oral surgical needs, and management of obstructive salivary gland diseases. Students are also introduced to techniques, protocol and the management of the hospitalized dental patient.

DESS 7314. Surgical Sciences Clinical Practicum 1. 2 cr. hrs.
Provides the initial experiences that students have with the clinical treatment of patients with needs in the areas of periodontal therapy, endodontics, oral surgery and oral pathology. Students rotate through controlled experiences in these various areas and provide comprehensive care to patients with certain needs, particularly in the area of periodontics. S/U grade assessment.

DESS 7318. Junior Honors Clinical Practicum in Oral Surgery. 1 cr. hr.
An in-depth practicum for students who have applied for or have been accepted into advanced OMS programs. Students are exposed in a more specific and in depth manner to oral and maxillofacial surgical residency programs. Students are assigned additional complex dento-alveolar procedures as they arise and are expected to present case histories, treatment plans, outcomes and assessments of the procedures provided in an outcome based discussion. Enrollment in this course requires special permission of the course director, academic dean, the student's group leader and the clinical director. Prereq: Enrollment in the School of Dentistry.

DESS 7319. Junior Honors Clinical Practicum in Periodontics. 1-2 cr. hrs.
Exposes the students, in more specific and in-depth manner to periodontal surgical procedures. Focuses on different surgical procedures and incorporates evidence based dentistry in the treatment planning and end point of therapy. Literature review and journal club will be included in the course with emphasis on current literature and surgical technique. Students also have the chance to learn more and possibly participate in more complex periodontal procedures. Allows for the possibility of discussing research ideas and research projects. Prereq: Cons. of the course dir. and the academic dean.

DESS 7320. Clinical Endodontic Procedures. 1 cr. hr.
Lecture course designed to aid the student in incorporating routine endodontic treatment to a general practice. The cause and correction of endodontic failures are discussed. A variety of treatment modalities is presented that correspond to different clinical situations. Diagnosis, treatment planning and management of endodontic problems are emphasized. Topics include bleaching, endodontic surgery, apexification, methods of treating endodontic emergencies, a review of endodontic diagnosis, vital pulp therapy, restoration of endodontically treated teeth, replantation and other advanced procedures. How to determine successful treatment and when to refer is discussed.

DESS 7321. Advanced Oral and Maxillofacial Surgery. 2 cr. hrs.
Provides the student with diagnostic skills, surgical management and post operative complications in patients with major deformities requiring preprosthetic surgery, advanced techniques in implant surgery, major odontogenic infections, the principles of biopsy and diagnosis, management of minor and major facial trauma, dentofacial deformities and the diagnosis and management of TMJ and facial pain.
DESS 7323. Clinical Pharmacology and Medicine for Dentistry. 1 cr. hr.
Builds on the foundational knowledge provided in an earlier general pharmacology course. Provides clinical correlations to topics and addresses areas that are specific to the practitioner, such as: prescribing medications where appropriate, the management of drug interactions and a full review of anesthesia specific to the dental patient. Prereq: Enrolled in the School of Dentistry.

DESS 7324. Surgical Sciences Clinical Practicum 2. 2 cr. hrs.
Second course in a sequence that provides the dental student experiences in the clinical treatment of patients with needs in the areas of periodontal therapy, endodontics, oral surgery and oral pathology. Students rotate through controlled experiences in these various areas and provide comprehensive care to patients with certain needs, particularly in the area of periodontics. Students are expected to have greater skill and to be less dependent at this point. S/U grade assessment.

DESS 7334. Surgical Sciences Clinical Practicum 3. 1 cr. hr.
Third course in a sequence that provides the dental student experiences in the clinical treatment of patients with needs in the areas of periodontal therapy, endodontics, oral surgery and/or pathology. Students rotate through controlled experiences in these various areas and provide comprehensive care to patients with certain needs, particularly in the area of periodontics. Students are expected to have greater skill and to be more independent at this point. Prereq: Enrolled in the School of Dentistry.

DESS 7414. Senior Clinical Practicum in Surgical Sciences 1. 4 cr. hrs.
This is the first of two advanced level practicums that provide experiences in periodontics, endodontics, oral surgery and oral pathology. Successful progress in each discipline is required to be judged as making satisfactory progress in this practicum experience. S/U grade assessment.

DESS 7418. Senior Honors Clinical Practicum in Oral Surgery. 1 cr. hr.
An in-depth practicum for students who have applied for or have been accepted into advanced OMS programs. Students are exposed in a more specific and in depth manner to oral and maxillofacial surgical residency programs. Students are assigned additional complex dento-alveolar procedures as they arise and are expected to present case histories, treatment plans, outcomes and assessments of the procedures provided in an outcome based discussion. Enrollment in this course requires special permission of the course director, academic dean, the student's group leader and the clinical director. Prereq: Enrollment in the School of Dentistry.

DESS 7419. Senior Honors Clinical Practicum in Periodontics. 1-2 cr. hrs.
A continuation of DESS 7319 with more in-depth cases for the student to work on. S/U grade assessment. Prereq: Cons. of the course dir. and the academic dean.

DESS 7424. Senior Clinical Practicum in Surgical Sciences 2. 4 cr. hrs.
This is the second of two advanced level practicums that provide experiences in periodontics, endodontics, oral surgery and oral pathology. Successful progress in each discipline is required to be judged as making satisfactory progress in this practicum experience. S/U grade assessment.