

# The Curriculum

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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 Clinics in the city of Milwaukee, the Tri-County Community Dental Clinic in Appleton, the Peter Christensen Dental Clinic in Lac Du Flambeau, the Ministry Dental Center in Stevens Point, 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

BISC 7410	Microbiology	4
BISC 7514	General Histology	4
BISC 7515	Biomedical Systems 1	3
DEGD 7112	Preservation and Restoration of Tooth Structure 1	3
DEGD 7113	Dental Anatomy and Occlusion 1	2
DEIN 7110	Foundations of Oral Health 1	3
DEIN 7114	Introduction to Clinical Practice 1	3
DEIN 7118	Dental Rounds 1	1

Total Credit Hours

23

**Second Term, Spring**

BISC 7516	Biomedical Systems 2	4
BISC 7517	Biomedical Systems 3	4
BISC 7518	Biomedical Systems 4	4
DEGD 7122	Preservation and Restoration of Tooth Structure 2	3
DEGD 7123	Dental Anatomy and Occlusion 2	2
DEIN 7120	Foundations of Oral Health 2	3
DEIN 7121	Oral Biology	4
DEIN 7124	Introduction to Clinical Practice 2	2
DEIN 7128	Dental Rounds 2	1
Total Credit Hours		27

**Summer Session (S-1)**

DEGD 7132	Preservation and Restoration of Tooth Structure 3	3
DEGD 7133	Preclinical Removable Prosthodontics 1	3
DEIN 7130	Oral Medicine and Diagnosis 1	4
DEIN 7134	Introduction to Clinical Practice 3	2
DEIN 7138	Dental Rounds 3	1
Total Credit Hours		13

**Second Year****First Term, Fall**

BISC 7520	Dental Pharmacology	4
DEGD 7212	Preclinical Fixed Prosthodontics 1	3
DEGD 7213	Preclinical Removable Prosthodontics 2	2
DEIN 7210	Oral Medicine and Diagnosis 2	4
DEIN 7220	Oral Medicine and Diagnosis 3	3
DEIN 7214	Introduction to Clinical Practice 4	1
DEIN 7218	Dental Rounds 4	1
DESS 7210	Clinical Periodontal Therapy	1
Total Credit Hours		19

**Second Term, Spring**

DECS 7310	Special Patient Care	1
DEDS 7222	Orthodontic Principles and Techniques	3
DEGD 7222	Preclinical Fixed Prosthodontics 2 and Clinical Occlusion	3
DEGD 7223	Preclinical Removable Prosthodontics 3	2
DEIN 7221	Care of the Pediatric Patient	2
DEIN 7224	Intermediate Clinical Practice	3
DEIN 7228	Dental Rounds 5	1
DESS 7211	Introduction to Endodontics	2
Total Credit Hours		17

**Summer Session (S-2)**

DEDS 7234	Developmental Sciences Introductory Clinical Practicum	1
DEGD 7310	Clinical Restorative Procedures 1	2
DEIN 7230	Introduction to Implants	3
DEIN 7234	Clinical Dental Practice	1-3
DEIN 7238	Dental Rounds 6	1
DESS 7230	Emergency Medical Interventions	1
DESS 7231	Foundations of Oral and Maxillofacial Surgery	1

DESS 7234	Surgical Sciences Introductory Clinical Practicum	1
Total Credit Hours		11-13

### Third year

#### First Term, Fall

DECS 7314	Comprehensive Patient Care Practicum 1	5
DEDS 7310	Orthodontic Management	1
DEDS 7314	Developmental Sciences Clinical Practicum 1	1
DEGD 7320	Clinical Restorative Procedures 2	1
DEGD 7324	Prosthodontic Clinical Practicum 1	3
DEIN 7318	Dental Rounds 7	1
DEIN 7330	Foundations of Professional Development	2
DESS 7310	Intermediate Oral and Maxillofacial Surgery	1
DESS 7314	Surgical Sciences Clinical Practicum 1	2
DESS 7320	Clinical Endodontic Procedures	1
Total Credit Hours		18

#### Second Term, Spring

DECS 7320	Dental Practice Dynamics 1	1
DECS 7324	Comprehensive Patient Care Practicum 2	5
DEDS 7324	Developmental Sciences Clinical Practicum 2	1
DEGD 7330	Clinical Restorative Procedures 3	2
DEIN 7320	Clinical Radiology and Oral Pathology	2
DEIN 7328	Dental Rounds 8	1
DESS 7321	Advanced Oral and Maxillofacial Surgery	2
DESS 7323	Clinical Pharmacology and Medicine for Dentistry	1
DESS 7324	Surgical Sciences Clinical Practicum 2	2
Total Credit Hours		17

#### Summer Session (S-3)

DECS 7334	Comprehensive Patient Care Practicum 3 *	1-4
DEDS 7334	Developmental Sciences Clinical Practicum 3	1
DEIN 7338	Dental Rounds 9	1
DESS 7334	Surgical Sciences Clinical Practicum 3	1
Total Credit Hours		4-7

### Fourth Year

#### First Term, Fall

DECS 7410	Dental Practice Dynamics 2	2
DECS 7414	Senior Clinical Practicum in Comprehensive Patient Care 1 *	1-5
DECS 7996	Extended Clinical Practice (Variable)	0
DEDS 7414	Senior Clinical Practicum in Developmental Sciences 1	2
DEGD 7414	Senior Clinical Practicum in Prosthodontics 1	4
DEIN 7410	Senior Colloquium 1	1
DEIN 7418	Dental Rounds 10	1
DESS 7414	Senior Clinical Practicum in Surgical Sciences 1	4
Total Credit Hours		15-19

#### Second Term, Spring

DECS 7424	Senior Clinical Practicum in Comprehensive Patient Care 2 *	1-5
DECS 7996	Extended Clinical Practice (Variable)	0
DEDS 7424	Senior Clinical Practicum in Developmental Sciences 2	2

DEGD 7424	Senior Clinical Practicum in Prosthodontics 2	4
DEIN 7428	Dental Rounds 11	1
DESS 7424	Senior Clinical Practicum in Surgical Sciences 2	4
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. Topic areas include: the general characteristics of bacteria, viruses, fungi and parasites as well as the etiology, pathogenesis, laboratory identification and epidemiology of selected diseases. Control of microorganisms is discussed in terms of sterilization, disinfection, chemotherapy and immunization. The immune system and the immune response are discussed. Applies toward the Cell and Molecular Content Area. Prereq: School of Dentistry or PHAS major.

### **BISC 7514. General Histology. 4 cr. hrs.**

This course is a study of the normal microscopic structure and function of human cells, tissues and organs. The structural basis for various physiological and pathological processes such as inflammation and endocrine cycles is presented. The student is also introduced to tissues of the oral region that are studied in detail in DENT 7121. Laboratory exercises promote visual identification of structure. 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. Applies toward the Anatomy and Systems Content Area. 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. 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.