

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. A Group Coordinator schedules patient appointments utilizing state-of-the-art clinic management software. 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 junior and senior 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 weekly 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 and are assigned to provide simple dental procedures 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 include, but are not limited to the Tri-County Community Dental Clinic in Appleton, the Ministry Dental Center in Stevens Point, and the Chippewa Valley Technical College in Eau Claire, Wis. Students provide both preventive and clinical services to these underserved populations.

Note: D1 courses are numbered from 400 to 449, D2 courses are numbered from 450 to 499, D3 courses are numbered from 500 to 549 and D4 courses are numbered from 550 to 599. Courses with the BISC designation are taught by the Department of Biomedical Sciences, College of Health Sciences.

CURRICULUM, 2007–2008

FIRST YEAR

<i>Course</i>	<i>Course Title</i>	<i>Credits</i>
First Term, Fall		
BISC 413	Biochemistry	4
BISC 414	General Histology	4
DENT 401	Foundations of Oral Health 1	3
DENT 404	Research Practicum 1	1+
DENT 411	Introduction to Clinical Practice 1	3
DENT 420	Preservation and Restoration of Tooth Structure 1	3
DENT 430	Dental Anatomy and Occlusion 1	2
DENT 440	Dental Rounds 1	1
		20-21
Second Term, Spring		
BISC 410	Microbiology	4
BISC 415	Biomedical Systems 1	3
BISC 416	Biomedical Systems 2	3
DENT 405	Research Practicum 2	1+
DENT 417	Oral Biology	4
DENT 402	Foundations of Oral Health 2	3
DENT 412	Introduction to Clinical Practice 2	2
DENT 421	Preservation and Restoration of Tooth Structure 2	3
DENT 431	Dental Anatomy and Occlusion 2	2
DENT 441	Dental Rounds 2	1
		25-26
Summer Session (S-1)		
DENT 403	Oral Medicine and Diagnosis 1	4
DENT 406	Research Practicum 3	1-3+
DENT 413	Introduction to Clinical Practice 3	2
DENT 422	Preservation and Restoration of Tooth Structure 3	3
DENT 425	Preclinical Removable Prosthodontics 1	3
		12-15

+ All research practicums are elective courses. Consent of the academic dean is required.

SECOND YEAR

<i>Course</i>	<i>Course Title</i>	<i>Credits</i>
First Term, Fall		
BISC 425	Biomedical Systems 3	3
BISC 426	Biomedical Systems 4	3
DENT 450	Oral Medicine and Diagnosis 2	4
DENT 452	Clinical Periodontal Therapy	1
DENT 460	Dental Rounds 4	1
DENT 463	Research Practicum 4	1-2+
DENT 470	Introduction to Endodontics	2
DENT 471	Pre-clinical Fixed Prosthodontics 1	3
DENT 472	Pre-clinical Removable Prosthodontics 2	2
DENT 480	Introduction to Clinical Practice 4	1
		20-22
Second Term, Spring		
DENT 451	Oral Medicine and Diagnosis 3	5
DENT 461	Dental Rounds 5	1
DENT 464	Research Practicum 5	1-2+
DENT 473	Pre-clinical Fixed Prosthodontics 2 and Clinical Occlusion	3
DENT 474	Developmental Principles and Basic Techniques in Orthodontics and Pediatric Dentistry	4
DENT 475	Pre-clinical Removable Prosthodontics 3	2
DENT 481	Intermediate Clinical Practice	3
		18-20
Summer Session (S-2)		
DENT 453	Introduction to Implants	1
DENT 454	Emergency Medical Interventions	1
DENT 457	Foundations of Oral and Maxillofacial Surgery	1
DENT 482	Clinical Dental Practice (normally taken for 3 credits)	1-3*
DENT 483	Research Practicum 6	1-3*+
		8

* Students who enroll for credits in DENT 483 must enroll for correspondingly fewer credits in DENT 482. Consent of their group leader and the academic dean is required.

+ All research practicums are elective courses. Consent of the academic dean is required.

THIRD YEAR

<i>Course</i>	<i>Course Title</i>	<i>Credits</i>
First Term, Fall		
BISC 435	Pharmacology	4
DENT 508	Research Practicum 7	1-2+
DENT 510	Comprehensive Patient Care Practicum 1	5
DENT 511	Surgical Sciences Clinical Practicum 1	2
DENT 512	Developmental Sciences Clinical Practicum 1	1
DENT 521	Clinical Restorative Procedures 1	2
DENT 522	Special Patient Care	1
DENT 523	Orthodontic Management	1
DENT 533	Intermediate Oral and Maxillofacial Surgery	1
DENT 540	Dental Rounds 7	1-2
		18-21
Second Term, Spring		
DENT 509	Research Practicum 8	1-2+
DENT 513	Comprehensive Patient Care Practicum 2	5
DENT 514	Surgical Sciences Clinical Practicum 2	2
DENT 515	Developmental Sciences Clinical Practicum 2	1
DENT 516	Prosthodontic Clinical Practicum 1	3
DENT 524	Clinical Endodontic Procedures	1
DENT 525	Clinical Radiology and Oral Pathology	2
DENT 531	Clinical Restorative Procedures 2	2
DENT 532	Dental Practice Dynamics 1	1
DENT 535	Advanced Oral and Maxillofacial Surgery	2
DENT 541	Dental Rounds 8	1-2
		20-23
Summer Session (S-3)		
DENT 517	Comprehensive Patient Care Practicum 3 (normally taken for 4 credits)	1-4*
DENT 518	Research Practicum 9	1-4*+
DENT 534	Clinical Restorative Procedures 3	2
DENT 536	Foundations of Professional Development	2
		8

* Students who enroll for credits in DENT 518 must enroll for correspondingly fewer credits in DENT 517. Consent of their group leader and the academic dean is required.

+ All research practicums are elective courses. Consent of the academic dean is required.

FOURTH YEAR

<i>Course</i>	<i>Course Title</i>	<i>Credits</i>
First Term, Fall		
DENT 551	Senior Colloquium 1	1
DENT 555	Dental Practice Dynamics 2	1
DENT 561	Senior Clinical Practicum in Prosthodontics 1	4
DENT 562	Senior Clinical Practicum in Surgical Sciences 1	4
DENT 563	Senior Clinical Practicum in Developmental Sciences 1	2
DENT 564	Senior Clinical Practicum in Comprehensive Patient Care 1 (normally taken for 5 credits)	1-5 *
DENT 580	Research Practicum 10	1-4 *+
DENT 590	Dental Rounds 10	1-2
DENT 594	Extended Clinical Practice	Variable
		18-19
Second Term, Spring		
DENT 552	Senior Colloquium 2	1
DENT 571	Senior Clinical Practicum in Prosthodontics 2	4
DENT 572	Senior Clinical Practicum in Surgical Sciences 2	4
DENT 573	Senior Clinical Practicum in Developmental Sciences 2	2
DENT 574	Senior Clinical Practicum in Comprehensive Patient Care 2 (normally taken for 5 credits)	1-5 *
DENT 581	Research Practicum 11	1-4 *+
DENT 591	Dental Rounds 11	1-2
DENT 594	Extended Clinical Practice	Variable
		17-18

* Students who enroll for credits in DENT 580 and DENT 581 must enroll for correspondingly fewer credits in DENT 564 and DENT 574, respectively. Consent of their group leader and the academic dean is required.

+ All research practicums are elective courses. Consent of the academic dean is required.

COURSE DESCRIPTIONS

DEPARTMENT OF BIOMEDICAL SCIENCES (BISC)

Chair: Dr. Linda K. Vaughn

BISC 410. Microbiology

4 credits

This course 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. *Prereq:* BISC 413.

First year/Second term

BISC 413. Biochemistry

4 credits

Biochemistry of microbial cells and human cells are compared and contrasted. The chemistry of proteins, carbohydrates, lipids and nucleic acids, metabolic regulation of human cells as well as changes in diseases are discussed.

First year/First term

BISC 414. General Histology

4 credits

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 417. Laboratory exercises promote visual identification of structure.

First year/First term

BISC 415. Biomedical Systems 1

3 credits

Module I of a systems-based 12 credit course integrating anatomy, physiology and pathology including clinical correlates.

First year/Second term

BISC 416. Biomedical Systems 2

3 credits

Continuation of BISC 415

First year/Second term

BISC 425. Biomedical Systems 3

3 credits

Continuation of BISC 416

Second year/First term

BISC 426. Biomedical Systems 4

3 credits

Continuation of BISC 425

Second year/First term

BISC 435. Pharmacology

4 credits

Pharmacological and toxicological actions and therapeutic effects of drugs used in medical practice.

Prereq: BISC 413.

Third year/First term

BISC 450. Remediation Variable-Titles/ Variable-credits

BISC 495. Independent Study (elective)

1-6 credits

Prereq: Cons of dept. ch.

FIRST YEAR

DENT 401. Foundations of Oral Health 1

3 sem. 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. *Prereq:* Enrolled in Dentistry

First year/First term

Course director: D. Berzins

DENT 402. Foundations of Oral Health 2

3 credits

Continuation of DENT 401

First year/Second term

Course director: E. Donate-Bartfield

DENT 403. Oral Medicine and Diagnosis 1

4 sem. hrs.

This course is 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.

Prereq: Enrolled in Dentistry

First year/Summer term

Course director: R. Morris/E. Sampson

DENT 404. Research Practicum 1

1 sem. 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.

First year/First term

Course director: B. Hodgson

DENT 405. Research Practicum 2

1 sem. 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.

First year/Second term

Course director: B. Hodgson

DENT 406. Research Practicum 3

1-3 sem. 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.

First year/Summer term

Course director: B. Hodgson

DENT 411. Introduction to Clinical Practice 1

3 sem. hrs.

This course 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 DENT 411-413, 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 DENT 411-413. Students are provided an extensive laboratory experience in periodontics which prepares them to deliver oral prophylaxis 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. *Prereq:* Enrolled in Dentistry

First year/First term

Course director: L. Wells

DENT 412. Introduction to Clinical Practice 2

2 credits

Continuation of DENT 411. S/U grading.

First year/Second term

Course director: L. Wells

DENT 413. Introduction to Clinical Practice 3

2 credits

Continuation of DENT 412. S/U grading.

First year/Summer term

Course director: L. Wells

DENT 417. Oral Biology

4 sem. hrs.

This course covers oral histology and oral microbiology/immunology, correlating this information with clinical situations. *Prereq:* Enrollment in School of Dentistry.

First year/Second term

Course director: J. Mailhot

DENT 420. Preservation and Restoration of Tooth Structure 1

3 sem. 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. The didactic portion of the course provides the scientific and clinical basis for laboratory projects. *Prereq: Enrolled in Dentistry*

First year/First term

Course director: G. Stafford

DENT 421. Preservation and Restoration of Tooth Structure 2

3 credits

Continuation of DENT 420

First year/Second term

Course director: G. Stafford

DENT 422. Preservation and Restoration of Tooth Structure 3

3 credits

Continuation of DENT 421

First year/Summer term

Course director: G. Stafford

DENT 425. Preclinical Removable Prosthodontics 1

3 sem. hrs.

This course introduces students to both the clinical and laboratory steps necessary to fabricate complete maxillary and mandibular dentures for the edentulous patient. The student performs all the steps leading to the processing and delivery of the completed denture. Emphasis is placed on occlusion for dentures and how it differs from occlusion of the natural dentition. Each student has the opportunity to work with an actual patient to gain understanding of how the various principles taught in the course are applied to clinical practice.

First year/Summer term

Course director: M. Waliszewski

DENT 430. Dental Anatomy and Occlusion 1

2 sem. hrs.

This course 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 will perform laboratory exercises in which they duplicate the form and function of selected anterior and posterior teeth in wax. This course also serves as the foundation for subsequent restorative dentistry courses, including the fixed prosthodontic and removable prosthodontic preclinical courses. *Prereq: Enrolled in Dentistry*

First year/First term

Course director: C. Benson

DENT 431. Dental Anatomy and Occlusion 2

2 credits

Continuation of DENT 430

First year/Second term

Course director: C. Benson

DENT 440. Dental Rounds 1

1 sem. hr.

This three-course sequence introduces first year students to a unique learning environment that is based on the use of clinical cases to demonstrate how knowledge, skills, and experiences they acquire in their clinical and basic science courses can be practically integrated to serve the needs of patients. Dental Rounds 1, 2, 3 is the first of a series that culminates in the third and fourth years of dental school, when students have the opportunity to present and discuss how they have integrated the basic and clinical sciences in the development and implementation of treatment plans for patients under their care. *Prereq: Enrolled in Dentistry; S/U grade assessment.*

First year/First term

Course director: J. Vitolo

DENT 441. Dental Rounds 2

1 credit

Continuation of DENT 440. S/U grading.

First year/Second term

Course director: J. Vitolo

DENT 442. Dental Rounds 3

1 credit

Continuation of DENT 441. S/U grading.

Offered occasionally during the summer term.

Course director: J. Vitolo

SECOND YEAR**DENT 450. Oral Medicine and Diagnosis 2**

4 sem. hrs.

This course continues 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. *Prereq: DENT 403*

Second year/First term

Course director: R. Morris

DENT 451. Oral Medicine and Diagnosis 3

5 sem. hrs.

This is the third and final course in the Oral Medicine and Diagnosis sequence. This course integrates Oral Pathology into the diagnosis process. This involves the study of the diseases and abnormalities of the oral cavity and adjacent regions including their causes, processes, effects and resultant alterations (clinical, microscopic and radiographic) in oral structures and function. At this point in the sequence the student also learns to develop comprehensive multidisciplinary treatment plans, and their presentation to the patient, including issues of informed consent and ethics. Diagnosis and treatment planning skills are assessed in a case-based culminating skills assessment. *Prereq: DENT 403 and DENT 450.*

Second year/Second term

Course director: R. Morris/E. Sadeghi

DENT 452. Clinical Periodontal Therapy

1 sem. hr.

This course exposes the student, in a more specific and in-depth manner to the fundamental information that was covered in earlier courses. The course will discuss the diagnosis, pathogenesis and treatment of periodontal diseases. The student will 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.

Second year/First term

Course director: M. Kassab

DENT 453. Introduction to Implants

1 sem. hr.

This course includes a comprehensive overview of diagnosing, treatment planning, surgical placement, restoring and maintaining of dental implants. Emphasis will be placed on contemporary clinical techniques and patient management for treatment with root form endosteal dental implants.

Second year/Summer term

Course director: M. Kassab

DENT 454. Emergency Medical Interventions

1 sem. hr.

This course 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.

Second year/Summer term

Course director: J. Best

DENT 456. Basic and Pre-Clinical Science Review

2 sem. hrs.

This course provides a comprehensive review of the various basic science and selected preclinical (pathology and dental anatomy) courses. The course presents an overview of these areas focused on their application to the practice of dentistry. The course is also designed to prepare students for the Part I National Board Examinations. *S/U grade assessment.*

Second year/Summer term

Course director: W. Kos

DENT 457. Foundations of Oral and Maxillofacial Surgery

1 sem. 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 dental 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.

Second year/Summer term

Course director: J. Schoonenberg

DENT 460. Dental Rounds 4

1 sem. hr.

This course continues the sequence of courses that provides an opportunity for dental students to relate concepts learned in their biomedical science, preclinical laboratory and various clinical lecture courses to clinical cases. Students are presented with cases that they research and discuss in small group settings. This sequence of courses that continues throughout the dental curriculum provides an opportunity for students to develop critical thinking and problem solving knowledge and skills. S/U grade assessment.

Second year/First term

Course director: J. Vitolo

DENT 461. Dental Rounds 5

1 credit

Continuation of DENT 460. S/U grading

Second year/Second term

Course director: J. Vitolo

DENT 462. Dental Rounds 6

1 credit

Continuation of DENT 461. S/U grading

Offered occasionally during the summer term.

Course director: J. Vitolo

DENT 463. Research Practicum 4

1-2 sem. 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 fourth of a series of possible practicum experiences in research. S/U grade assessment. *Prereq: Cons. of instr.*

Second year/First term

Course director: B. Hodgson

DENT 464. Research Practicum 5

1-2 sem. 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.*

Second year/Second term

Course director: B. Hodgson

DENT 470. Introduction to Endodontics

2 sem. 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, asepsis 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.

Second year/First term

Course director: K. Olsen

DENT 471. Preclinical Fixed Prosthodontics 1

3 sem. hrs.

This course 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.

Second year/First term

Course director: C. Benson

DENT 472. Preclinical Removable Prosthodontics 2

2 sem. hrs.

This course will introduce students to the clinical and laboratory steps necessary to fabricate removable partial dentures for a patient. Emphasis will be placed on treatment planning, selection of correct abutment teeth, analysis of occlusal relationships, surveying and design. *Prereq: DENT 425*

Second year/First term

Course director: S. Rambhia

DENT 473. Preclinical Fixed Prosthodontics 2 and Clinical Occlusion

3 sem. hrs.

In this course, students will complete manikin based fixed prosthodontic projects. Functional anatomy and physiology of the masticatory system will be introduced as it relates to the biomechanics of jaw movement. This will be correlated with a hands-on component where the student will perform an analysis of occlusion of a patient. The student will perform all aspects of an occlusal analysis including fabrication of diagnostic casts articulated in centric relation, analysis of functional occlusion, and selective grinding of casts. *Prereq: DENT 471*

Second year/Second term

Course director: C. Benson

DENT 474. Developmental Principles and Basic Techniques in Orthodontics and Pediatric Dentistry

4 sem. hrs.

This course is 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. It also provides foundational material regarding treatment of the child patient through introduction of various principles associated with behavioral and other management methods for treatment of uncooperative children, recognition of child abuse and neglect, and management of specialty treatment such as periodontal and pathological conditions.

Second year/Second term

Course director: D. Liu/C. Gonzalez

DENT 475. Preclinical Removable Prosthodontics 3

2 credits

This course is a continuation of DENT 472 with emphasis on treatment planning for partial dentures and implants.

Second year/Second term

Course director: S. Rambhia

DENT 480. Introduction to Clinical Practice 4

1 sem. hr.

This course will cover 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.

Second year/First term

Course director: L. Wells

DENT 481. Intermediate Clinical Practice

3 sem. hrs.

Sophomore dental students will perform simple and intermediate clinical procedures on patients in a comprehensive patient management group setting. This course provides the transition between simple clinical practice and full clinical care privileges.

S/U grade assessment. *Prereq: DENT 480.*

Second year/Second Term

Course director: L. Wells

DENT 482. Clinical Dental Practice

1-3 sem. 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. *Prereq: DENT 480 and DENT 481; S/U grade assessment.*

Second year/Summer term

Course director: L. Wells

DENT 483. Research Practicum 6

1-3 sem. 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.*

Second year/Summer term

Course director: B. Hodgson

DENT 498. Special Topics in Dentistry

1-3 sem. hrs.

This course is taught occasionally when there is need to add a topic of current interest to the curriculum.

THIRD YEAR

DENT 508. Research Practicum 7

1-2 sem. 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 seventh of a series of possible practicum experiences in research. S/U grade assessment. *Prereq: Cons. of instr.*
Third year/First term
Course director: B. Hodgson

DENT 509. Research Practicum 8

1-2 sem. hrs.

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.*
Third year/Second term
Course director: B. Hodgson

DENT 510. Comprehensive Patient Care Practicum 1

5 sem. 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.
Third year/First term
Course directors: L. Wells

DENT 511. Surgical Sciences Clinical Practicum 1

2 sem. 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.
Third year/First term
Course director: T. Radmer

DENT 512. Developmental Sciences Clinical Practicum 1

1 sem. hr.

Provides the dental student's first experience in the clinical management and treatment of the child patient. Includes experiences in minor tooth movement. S/U grade assessment.
Third year/First term
Course Director: C. Gonzalez

DENT 513. Comprehensive Patient Care Practicum 2

5 sem. hrs.

Builds on the initial Comprehensive Care Practicum, DENT 510. 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 a 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. *Prereq: DENT 510; S/U grade assessment.*

Third year/Second term

Course directors: L. Wells

DENT 514. Surgical Sciences Clinical Practicum 2

2 sem. 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. *Prereq: DENT 511; S/U grade assessment.*

Third year/Second term

Course director: T. Radmer

DENT 515. Developmental Sciences Clinical Practicum 2

1 sem. 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. *Prereq: DENT 512; S/U grade assessment.*

Third year/Second term

Course director: C. Gonzalez

DENT 516. Prosthodontic Clinical Practicum 1

3 sem. 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. Successful completion of the Prosthodontic Pre-clinical laboratory courses required. S/U grade assessment.

Third year/Second term

Course director: G. Ziebert

DENT 517. Comprehensive Patient Care Practicum 3

1-4 sem. hrs.

Continues the sequence of Comprehensive Patient Care Practicums. 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. *Prereq: DENT 513; S/U grade assessment.*

Third year/Summer term

Course director: L. Wells

DENT 518. Research Practicum 9

1-4 sem. hrs.

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.*

Third year/Summer term

Course director: B. Hodgson

DENT 519. Junior Honors Clinical Practicum in Periodontics

1-2 sem. hrs.

This course exposes the students, in more specific and in-depth manner to periodontal surgical procedures. The course will focus on different surgical procedures and incorporate 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. Also in this course the student will have the chance to learn more and possibly participate in more complex periodontal procedures. The course will allow for the possibility of discussing research ideas and research projects. Enrollment in this course requires consent of the course director and the Academic Dean. *Prereq: Normal progression through the dental curriculum to achieve Junior status.*

Third year/First and second terms

Course director: M. Kassab

DENT 521. Clinical Restorative Procedures 1

2 sem. hrs.

This course builds on the material presented in the preclinical restorative dentistry courses. Included are contemporary clinical techniques for intracoronary 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.

Third year/First term

Course director: C. Benson

DENT 522. Special Patient Care

1 sem. 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.

Third year/First term

Course director: J. Hjertstedt

DENT 523. Orthodontic Management

1 sem. hr.

This course stresses the complexities of comprehensive orthodontic treatment. It emphasizes road-based considerations in the diagnosis, treatment planning and provision of competent orthodontic care for resolving complex malocclusions. There is a focus on the interaction between generalist and orthodontic specialist.

Third year/First term

Course director: D. Liu

DENT 524. Clinical Endodontic Procedures

1 sem. hr.

This is a 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.

Third year/Second term

Course director: K. Olsen

DENT 525. Clinical Radiology and Oral Pathology

2 sem. 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.

Third year/Second term

Course directors: L. Koenig/E. Sadeghi

DENT 531. Clinical Restorative Procedures 2

2 sem. hrs.

This course is a continuation of DENT 521 with emphasis on clinical techniques for removable partial dentures and fixed partial dentures. Also included are resin bonded prosthesis and all-ceramic restorations as well as advanced prosthodontic techniques, including implants. This builds on the restorative techniques section of DENT 453, Introduction to Implants.

Third year/Second term

Course director: V. Ortiz-Parsons

DENT 532. Dental Practice Dynamics 1

1 sem. hr.

The purpose of this course is to provide 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.

Third year/Second term

Course director: N. Shane

DENT 533. Intermediate Oral and Maxillofacial Surgery

1 sem. 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. *Prereq: DENT 457*

Third year/First term

Course director: T. Radmer

DENT 534. Clinical Restorative Procedures 3

2 sem. hrs.

Third and last course in the Restorative Dentistry Clinical continuum. Focuses mainly on the management of TMD problems and occlusion in general practice. Also presents a significant applied dental biomaterials segment. *Prereq: DENT 531*

Third year/Summer term

Course director: C. Benson

DENT 535. Advanced Oral and Maxillofacial Surgery

2 sem. hrs.

This course 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.

Third year/Second term

Course director: T. Radmer

DENT 536. Foundations of Professional Development

2 sem. hrs.

This integrated course is designed to aid students in forming personal professional standards governing their interaction with patients, peers and the public. This course will give students foundational knowledge in the area of ethics, jurisprudence and behavioral sciences, including ethical principles and reasoning, ethical codes and behaviors and the legal rights, obligations and responsibilities of dental practitioners in relation to the state, patients, colleagues and commercial associates.

Third year/Summer term

Course director: C. Okunseri

DENT 540. Dental Rounds 7

1-2 sem. hrs.

This course continues the dental rounds sequence. Students present and discuss clinical cases from their clinical rotations. Students are expected to be able to adequately present the initial patient information, diagnosis and treatment plan and be able to discuss the rationale for same. The level of understanding expected from the junior student is not as in depth as that expected for the senior student. *Prereq: DENT 462; S/U grade assessment.*

Third year/First term

Course directors: R. Hagner/C. Riffle

DENT 541. Dental Rounds 8

1-2 credits

This course continues DENT 540, Dental Rounds 7. S/U grading

Third year/Second term

Course directors: R. Hagner/C. Riffle

DENT 542. Dental Rounds 9

1-2 credits

This course continues DENT 541, Dental Rounds 8. S/U grading

Offered occasionally during the summer term.

Course directors: R. Hagner/C. Riffle

Note: DENT 519. Junior Honors Clinical Practicum in Periodontics is only available to a limited number of students. This course is taken in addition to the regular curriculum and results in an increase in the student's credit load.

FOURTH YEAR**DENT 551. Senior Colloquium 1**

1 sem. hr.

This course 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.

Fourth year/First term

Course director: R. Morris

DENT 552. Senior Colloquium 2

1 credit

This course is a continuation of DENT 551.

S/U grading

Fourth year/Second term

Course director: R. Morris

DENT 555. Dental Practice Dynamics 2

1 sem. hr.

This course 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.

Prereq: DENT 554; S/U grade assessment.

Fourth year/First term

Course director: N. Shane

DENT 561. Senior Clinical Practicum in Prosthodontics 1

4 sem. hrs.

This course provides the students with advanced experience in the disciplines of Fixed and Removable Prosthodontics. The course 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. Satisfactory completion of first three years of dental curriculum or its equivalent is a prerequisite of this course. S/U grade assessment.

Fourth year/First term

Course director: Staff

DENT 562. Senior Clinical Practicum in Surgical Sciences 1

4 sem. 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. *Prereq: DENT 514; S/U grade assessment.*

Fourth year/First term

Course director: A. Dentino

DENT 563. Senior Clinical Practicum in Developmental Sciences 1

2 sem. hrs.

This course provides advanced experience in the clinical management and treatment of the child patient. This includes caries management, sealant placement and application of fluorides. Also included in this course are experiences in minor tooth movement and other Orthodontic procedures that are within the student's scope of care.

Prereq: DENT 515; S/U grade assessment.

Fourth year/First term

Course director: T. Bradley

DENT 564. Senior Clinical Practicum in Comprehensive Patient Care 1

1-5 sem. hrs.

The first 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. *Prereq: DENT 517; S/U grade assessment.*

Fourth year/First term

Course directors: L. Wells

DENT 571. Senior Clinical Practicum in Prosthodontics 2

4 sem. hrs.

This course continues DENT 561 and provides the students with additional advanced experience in the disciplines of Fixed and Removable Prosthodontics. The course 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. Satisfactory completion of first three years of dental curriculum or its equivalent is a prerequisite of this course. *S/U grade assessment.*

Fourth year/Second term

Course director: Staff

DENT 572. Senior Clinical Practicum in Surgical Sciences 2

4 sem. 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. *Prereq: DENT 562; S/U grade assessment.*

Fourth year/Second term

Course director: A. Dentino

DENT 573. Senior Clinical Practicum in Developmental Sciences 2

2 sem. hrs.

This course provides additional advanced experiences in the clinical management and treatment of the child patient. This includes caries management, sealant placement and application of fluorides. Also included in this course are experiences in minor tooth movement and other Orthodontic procedures that are within the student's scope of care.

Prereq: DENT 563; S/U grade assessment.

Fourth year/Second term

Course director: T. Bradley

DENT 574. Senior Clinical Practicum in Comprehensive Patient Care 2

1-5 sem. 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. *Prereq: DENT 564; S/U grade assessment.*

Fourth year/Second term

Course directors: L. Wells

DENT 579. Senior Honors Clinical Practicum in Periodontics

1-2 sem. hrs.

This course is a continuation of DENT 519 with more in-depth cases for the student to work on. Enrollment in this course requires consent of the course director and the Academic Dean. *Prereq: Normal progression through the dental curriculum to achieve Senior status.*

Fourth year/First and second terms

Course director: M. Kassab

DENT 580. Research Practicum 10

1-4 sem. hrs.

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 of a series of possible practicum experiences in research. *S/U grade assessment. Prereq: Cons. of instr.*

Fourth year/First term

Course director: B. Hodgson

DENT 581. Research Practicum 11

1-4 sem. hrs.

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 of a series of possible practicum experiences in research. *S/U grade assessment. Prereq: Cons. of instr.*

Fourth year/Second term

Course director: B. Hodgson

DENT 590. Dental Rounds 10

1-2 sem. hrs.

The culmination of the Dental Rounds educational sequence, Dental Rounds 10 and 11 provide fourth year dental students with opportunities to present and discuss clinical cases that they have been involved in during their clinical rotations. Working with faculty mentors, special consideration is given to the development, implementation, and assessment of clinical outcomes of treatment plans. Reflecting their progression through the curriculum, fourth year students are called upon to demonstrate an integrated understanding of the requirements associated with comprehensive treatment planning that is characteristic of an effective general practice model of dentistry. *Prereq: Enrolled in Dentistry; Satisfactory completion of first three years of dental curriculum or its equivalent is a prerequisite of this course. S/U grade assessment.*

Fourth year/First term

Course directors: R. Hagner/C. Riffle

DENT 591. Dental Rounds 11

1-2 credits

Continuation of DENT 590.

S/U grading

Fourth year/Second term

Course directors: R. Hagner/C. Riffle

DENT 593. Remediation

0-6 sem. hrs.

Approval of Dean.

DENT 594. Extended Clinical Practice

0 sem. hrs.

Course allows students to fulfill clinical requirements necessary for graduation. Completion of all course work in D.D.S. program. *S/U grade assessment.*

Course directors: L. Wells

DENT 595. Independent Study

1-3 sem. hrs.

*Prereq: Consent of Department Chair; Consent of Division Head is a prerequisite of this course.***DENT 598. Special Topics in Dentistry**

1-3 sem. hrs.

This course is taught occasionally when there is need to add a topic of current interest to the curriculum.

Note: DENT 579. Senior Honors Clinical Practicum in Periodontics is taken under the same conditions as DENT 519, see note following Junior Year listings.