

**BULLETIN OF THE  
UNIVERSITY OF NEBRASKA MEDICAL CENTER  
COLLEGE OF DENTISTRY  
2010-2011**

**For additional information, please write  
DEAN, COLLEGE OF DENTISTRY  
University of Nebraska  
Medical Center**

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Lincoln, NE 68583-0740**

**Or access the College at  
[www.unmc.edu/dentistry](http://www.unmc.edu/dentistry)**

*The mission of the University of Nebraska Medical Center is to improve the health of Nebraska through premier educational programs, innovative research, the highest quality patient care, and outreach to underserved populations.*

*The objective of the University of Nebraska Medical Center is to recruit and retain persons of high moral and ethical character. In accordance with this objective, the University of Nebraska Medical Center reserves the right to review a candidate's suitability for admission.*

This bulletin provides information about the educational programs offered through the University of Nebraska Medical Center College of Dentistry. The UNMC faculty, the administration, and the University of Nebraska Board of Regents have authorized statements presented in this bulletin as indicating the current requirements, practices, and procedures for application for admission to the College and the Medical Center, admission requirements for residents and nonresidents; course offerings, content, and description; general and professional requirements for graduation; tuition and fees; and costs for education, books, and supplies.

It is the policy of the University of Nebraska Medical Center not to discriminate on the basis of sex, age, handicap, race, color, religion, marital status, veteran status, or national or ethnic origin in its educational programs, admissions policies, employment policies, financial aid or other school-administered programs. This policy is enforced by federal law under Title IX of the Education Amendments of 1972, Title VI of the Civil Rights Act of 1964, and Section 504 of the Rehabilitation Act of 1973. Inquiries regarding compliance with these statutes may be directed to the Affirmative Action Officer, University of Nebraska Medical Center, telephone (402) 559-7394, or to the Director of the Office for Civil Rights, Department of Health and Human Services, Washington, D.C.

#### NOTICE

Acceptance of registration by the University of Nebraska and admission to any educational program of the University do not constitute a contract of warranty that the University will continue indefinitely to offer the program in which a student is enrolled. The University expressly reserves the right to change, phase out, or discontinue any program.

The listing of courses contained in any University bulletin, catalog or schedule is by way of announcement only and shall not be regarded as an offer of contract. The University expressly reserves the right to (1) add or delete courses from its offerings, (2) change times or locations of courses or programs, (3) change academic calendars without notice, (4) cancel any course for insufficient registrations, or (5) revise or change rules, charges, fees, schedules, courses, requirements for degrees and any other policy or regulation affecting students, including, but not limited to, evaluation standards, whenever the same is considered to be in the best interests of the University.

Registration by the student signifies an agreement to comply with all regulations of the University whenever approved.

The College of Dentistry, in concert with the entire Medical Center, is implementing a total quality management system recognized as *Distinction Through Quality* (DTQ).

DTQ supports the following principles:

- Focus on Customers
- Prevent Problems . . . Do It Right the First Time
- Make Decisions Based on Facts
- Systems Fail, Not People
- Continuously Improve the System

DTQ is both a process and a philosophy aimed at limitless, continuous improvement of our services to meet the needs of our customers, patients, students, faculty and staff. Once DTQ is fully implemented, our commitment and obligation toward this goal will empower each person within the system to assist in creating a positive environment in which to work, learn and care for our patients.

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# **THE UNIVERSITY OF NEBRASKA**

## **The University's Heritage**

Founded in 1869, the University of Nebraska is one of the major institutions of public higher education in mid-America. On its Kearney, Lincoln, Omaha and Scottsbluff campuses, it serves approximately 50,000 students.

The University's classes began September 7, 1871, in the original building, University Hall, which was located on the edge of the then new Nebraska capital village of Lincoln. Despite deep economic difficulties and disputes over policy, the University survived its early years and by 1886 had inaugurated the first program in graduate education west of the Mississippi. In 1908 it received membership in the Association of American Universities, evidence of the high quality of its effort in teaching and research.

## **The Present Organization**

The University of Nebraska is composed of four major administrative units: The University of Nebraska-Lincoln (UNL), the University of Nebraska at Kearney (UNK), the University of Nebraska at Omaha (UNO), and the University of Nebraska Medical Center (UNMC). Each of the major administrative units is led by a chancellor who reports to a University President. Each is ultimately governed by a 12-member Board of Regents which insures that the University meets its goal of quality instruction, research, and public service for the citizens of the state.

The College of Dentistry actively seeks to fulfill the goals of the University through its diversified degree (baccalaureate, masters, and doctoral) and certificate programs. As one of the 11 major units of UNMC, it shares the patient care, research, and community service missions of the Medical Center.

## **University of Nebraska at Kearney**

Formerly Kearney State College, an institution founded in 1903, The University of Nebraska at Kearney came under direction of the University of Nebraska Board of Regents in 1991.

The University of Nebraska at Kearney is located on a campus of more than 235 acres at 905 West 25th Street and serves over 10,000 students.

The University of Nebraska at Kearney is composed of five colleges: The College of Business and Technology, the College of Education, the College of Fine Arts and Humanities, the College of Natural and Social Sciences and the College of Graduate Studies.

## **University of Nebraska at Lincoln**

There are two campuses in Lincoln; one, the Downtown or City Campus, 195 acres, developed on the original site; the other, the East Campus, 332 acres, about three miles away, developed on the location of the College of Agriculture. There are about 25,000 students enrolled at UNL, and it is from these campuses that the University's outstate activities, including the Experiment Stations and Agricultural Extension Service offices, are directed.

On the City Campus are the Colleges of Architecture, Arts and Sciences, Business Administration, Engineering and Technology, Teachers College, and the School of Journalism. The College of Nursing Lincoln Division is also located on the City Campus. The Schools of Life Sciences and Music are parts of the College of Arts and Sciences, and the School of Health, Physical Education and Recreation is in the Teachers College.

On the East Campus are UNL's College of Agriculture, College of Home Economics, College of Law, and the UNMC College of Dentistry. The Nebraska Center for Continuing Education and the Barkley Speech Pathology and Audiology Center are also located on East Campus.

## **University of Nebraska at Omaha**

Formerly the Municipal University of Omaha, an institution founded in 1908, The University of Nebraska at Omaha came under direction of the University of Nebraska Board of Regents in 1968.

The University of Nebraska at Omaha is located on a campus of more than 70 acres at 60th and Dodge Streets and serves nearly 14,000 students.

The University of Nebraska at Omaha is composed of nine colleges: the College of Arts and Sciences, the College of Education, the College of Business Administration, the College of Engineering and Technology, the College of Continuing Studies, the College of Home Economics, the College of Public Affairs and Community Service, the College of Fine Arts, and Graduate Studies and Research.

## **University of Nebraska Medical Center**

The University of Nebraska Medical Center, located on more than a 25-acre tract in central Omaha, is the hub of a complex and diversified medical community. The Center includes the Colleges of Medicine, Nursing, Pharmacy, Public Health, and Graduate Studies. A School of Allied Health Professions functions within the College of Medicine. The College of Dentistry is administratively part of the Medical Center even though the Dentistry building is on the East Campus of the University of Nebraska-Lincoln. Other facilities utilized for teaching and research located on the Medical Center Campus include: the Eugene C. Eppley Institute for Research in Cancer and Allied Diseases, the Munroe-Meyer Institute for Genetics and Rehabilitation, University Geriatric Center/Psychiatric Services, the UNMC Physicians and the UNMC/NHS Hospital. In October, 1997, UNMC and Clarkson Regional Health Services merged their hospitals to create Nebraska Health System which continues to operate both hospitals and is now called The Nebraska Medical Center. The College of Nursing has four divisions and also utilizes facilities on the main campus at UNL, at UNK and at the West Nebraska Medical Center in Scottsbluff. Enrollment at the Medical Center totals about 2,400 annually.

# THE COLLEGE OF DENTISTRY

The College of Dentistry, while it is a part of the University of Nebraska Medical Center, is located in Lincoln, Nebraska, on the East Campus of the University of Nebraska-Lincoln. This location is only five minutes from the City Campus and 15 minutes from the Lincoln airport. Also located on the East Campus are the College of Law, the Institute for Agriculture and Natural Resources, the College of Home Economics, the Barkley Speech and Hearing Center, and the Nebraska Center for Continuing Education.

The physical facility of the College of Dentistry was constructed in 1967 and is completely self-contained with regard to its curriculum. It contains its own basic science facilities and clinical areas. In addition, the College of Dentistry is equipped for distance learning and television transmission to all classrooms and laboratories for teaching purposes. Particular attention has been placed on modern laboratory and clinical equipment. The laboratories are well designed for preclinical disciplines and the clinical areas are pleasant, modern areas in which each student has a semiprivate work area. During 1996-98, the facility was renovated and modernized and a new addition, The Center for Dental Research, was constructed to increase space and resources for clinical research in dentistry.

The College of Dentistry has five specialty programs in the areas of pediatric dentistry, endodontics, periodontics, and orthodontics and dento-facial orthopedics, plus a general practice residency (GPR). The residency programs in pediatric dentistry and general practice (GPR) operate in facilities at UNMC in Omaha. Courses in the College of Dentistry are open only to those students who are formally accepted by the Admissions Committee as students in the College of Dentistry.

## HISTORY

The College of Dentistry in Lincoln was started as the Lincoln Dental College in 1899. It became affiliated with the University of Nebraska in 1903 when dental students were enrolled in the University for the basic science portion of the curriculum and received their clinical instruction from the Lincoln Dental College. In 1918, the College of Dentistry was formally made a unit in the University of Nebraska and was recognized as a college in the University of Nebraska by the State Legislature in 1919. The College of Dentistry has a proud history and its graduates have practiced with distinction in all areas of the United States and around the world.

## PHILOSOPHY

A major goal of the College of Dentistry is to provide the physical facility and service atmosphere conducive to comprehensive patient care. The prime mission of the College of Dentistry is to prepare competent general practitioners and dental hygienists who can satisfactorily practice dentistry and dental hygiene in any area of the country and render patient-centered comprehensive care. Emphasis is placed on the understanding of the community, of preventive dentistry, and of all components of the therapeutic procedures constituting the professions of dentistry and dental hygiene.

## ACCREDITATION

The University of Nebraska is fully accredited by the North Central Association of Colleges and Secondary Schools, the accrediting agency for the region in which the University is located.

The programs in dental education, endodontics, orthodontics and dentofacial orthopedics, pediatric dentistry, periodontics, prosthodontics, general practice residency and dental hygiene are accredited by the Commission on Dental Accreditation [*and have been granted the accreditation status of "approval without reporting requirements"*]. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312)-440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611.

## DEFINITION OF A GRADUATE

The College of Dentistry strives to create a learning environment in which each graduate is instilled with the determination to provide conscientious care to patients, along with a sense of responsibility to self, the community and the profession. The curriculum for students of both dentistry and dental hygiene provides an orderly progression

of knowledge and skills, reflecting the interdependence of biological, behavioral, and clinical sciences. At the same time, the curriculum is flexible, permitting variations in background, interests and career aims and allowing for the development of each student's potential.

Overall, the dental program of the College focuses on three interwoven areas:

- Scientific Foundations
- Competencies for Cognitive and Psychomotor Skills, and
- Competencies for Professional and Ethical Values.

Each of these areas addresses a set of foundations or competencies upon which the curriculum objectives of the College are based. Therefore, upon completion of the undergraduate dental program, the student is expected to demonstrate achievement of the stated competencies in each area.

### **SCIENTIFIC FOUNDATIONS**

**SF-1. Biomaterials Sciences:** The new dentist must have an understanding of basic biomaterials science, consisting of a core of information on the biological, chemical, physical and mechanical properties of modern dental materials.

**SF-2. Biomedical, Behavioral and Social Sciences:** The new dentist must have an understanding of basic biomedical and behavioral principles including a core of information on the normal and abnormal fundamental structures, functions and interrelationships of the body's systems and behavioral characteristics.

Note: It is acknowledged that the dental college's basic science curriculum is essential in establishing a sound scientific basis for the practice of dentistry and is far more encompassing of modern biomedical science than is included in the clinical competency statements below.

### **COMPETENCIES FOR COGNITIVE AND PSYCHOMOTOR SKILLS**

- A. Scientific Process:** The new dental health professional must be able to acquire, and critically evaluate scientific information necessary for the comprehensive care of patients.
- B. Behavioral Sciences:** The new dentist must be able to apply the fundamental principles of behavioral sciences to discern and manage interpersonal and multi-cultural issues and problems encountered in providing care for patients and managing a dental practice.
- C. Patient Assessment:** The new dentist must be able to collect biological, psychological and social information needed to evaluate the medical and oral condition for patients of all ages.
- D. Diagnosis:** The new dentist must be able to distinguish normal from abnormal clinical states and interpret historical, clinical, and imaging data as well as apply other diagnostic tests to develop a diagnosis for patients of all ages.
- E. Treatment Planning:** The new dentist must be able to develop, present, discuss and obtain informed consent for individual treatment plans for patients that considers the patient's age, condition, interest, and capabilities.
- F. Definitive Treatment:** For the child, adolescent, adult, geriatric and medically compromised patient, the new dentist should be able to:
  1. Employ techniques to manage orofacial discomfort and attributed psychological distress during the provision of care.
  2. Prevent and/or manage the dental and medical emergency situations encountered in the practice of general dentistry.
  3. Treat and/or manage caries in the primary, mixed and permanent dentition.
  4. Diagnose and/or manage temporomandibular disorders (TMD) and orofacial pain.
  5. Treat and/or manage developmental or acquired and functional occlusal abnormalities of the primary, mixed, or permanent dentition.
  6. Recognize and manage common oral soft and hard tissue disorders or diseases.

7. Treat diseases of pulpal and/or periradicular tissues.
8. Treat and/or manage inflammatory periodontal disease.
9. Treat and/or manage conditions requiring uncomplicated surgical procedures on the hard and soft tissues.
10. Provide restorations and prostheses that are appropriate in form and function, and which satisfy the reasonable comfort and esthetic requirements of the patient.
11. Evaluate the outcomes for the above treatments.

#### **COMPETENCIES FOR PROFESSIONAL AND ETHICAL VALUES**

- G. **Practice Management**: The new dentist must be able to develop practice goals and plans, make informed business decisions and evaluate their results, and understand personnel management.
- H. **Ethics**: The new dentist must be able to discern and appropriately apply ethical reasoning, professional values and legal and regulatory concepts in dental practice.
- I. **Oral Health Promotion**: The new dentist must be able to provide patient education and care that emphasizes prevention of oral diseases and supports the maintenance of oral health in patients of all ages.
- J. **Self-improvement**: The new dentist must be able to assess professional knowledge and skills and to pursue life long learning.
- K. **Information Technology**: The new dentist must be able to use information technology resources to obtain information and manage dental practice.

# PROGRAM IN DENTISTRY

## PREDENTAL REQUIREMENTS

It is to the advantage of a student intent upon a career in dentistry to pursue a strong college preparatory course in high school, including as many courses in science and mathematics as possible.

Students who are uncertain about their interest in dentistry are invited to contact the Admissions Committee Coordinator, College of Dentistry, University of Nebraska Medical Center, Lincoln, Nebraska 68583-0740. All students considering careers in dentistry are welcome to visit the College.

Applicants for admission are required to have completed a minimum of three years (90 semester hours) of college preparation, including specified predental courses. However, the Admissions Committee prefers that an applicant complete a bachelor's program. The required courses can generally be completed in the first two years of college. Therefore, while completing the three years of college, students are encouraged to work toward a degree in their optional field of interest since admission cannot be assured.

Students enrolled at the University of Nebraska-Lincoln receive their predental instruction from the College of Arts and Sciences. Whether enrolled at the University of Nebraska-Lincoln or elsewhere, predental students should take the following courses during their first two undergraduate years:

### First Year

First Semester	Hours	Second Semester	Hours
English composition	3	English composition	3
Inorganic chemistry	4	Inorganic chemistry	4
General biology (life sciences)	4	General zoology (life sciences)	4
Humanities or social science electives	5	Humanities or social science electives	5

### Second Year

First Semester	Hours	Second Semester	Hours
Organic chemistry	4	Organic chemistry	4
General physics	4-5	General physics	4-5
Humanities or social science electives	8-9	Humanities or social science electives	8-9

It is advisable for a student to work toward a degree in his/her optional field of study beyond the sophomore year. A combined program is available for a student who wishes to obtain a bachelor's degree from the College of Arts and Sciences at the University of Nebraska-Lincoln before earning a degree in dentistry. Third-year courses should be selected in consultation with a predental adviser or an adviser in the optional field of study.

In addition to basic preparation in science, courses should be selected which will broaden the student's intellectual background and lay the groundwork for a full professional life. The following electives are especially appropriate: anthropology, business organization, human communication, English literature, economics, mathematics, political science, psychology, scientific Greek, sociology, life sciences (biochemistry, microbiology, zoology, genetics) and behavioral sciences.

## TRANSFER OF CREDITS

The University Board of Regents on January 11, 1975, established policy resulting in these statements:

'The University of Nebraska Medical Center Registrar will maintain a record of names and credit hours of courses taken at other institutions of higher learning in Nebraska and, upon the student's request, provide unofficial copies of such records only as authorized by the Family Educational Rights and Privacy Act of 1974.'

'Grades received in courses presented for advanced standing credit will not appear on the permanent record sheet of the student.'

The applicability of transferred credits to entrance and degree requirements or from petitions for advanced standing is determined by the dean of the College, Admissions Committee and department chairpersons on an individual basis after all necessary materials are submitted. Credits must be earned at a fully accredited institution of higher learning. Courses not considered applicable are:

1. graded 'I' (Incomplete), 'W' (Withdrawal), or Audit
2. completed but not given for credit
3. those remedial in nature.

## **RURAL HEALTH OPPORTUNITIES PROGRAM (RHOP)**

The College of Dentistry has entered into a program with Chadron State College and Wayne State College where selected applicants to dentistry and dental hygiene are given acceptance into the College of Dentistry through the Rural Health Opportunities Program prior to entering Chadron State or Wayne State College. Tuition may be waived while completing prerequisites for dental college. For further information, contact The College of Dentistry, Admissions, 40th & Holdrege, Box 830740, Lincoln, NE 68583-0740 or the Dean of the College of Arts & Sciences at Chadron State or Wayne State College.

## **ADMISSION GUIDELINES**

Students may be considered for admission who are academically prepared\* and are United States citizens or resident aliens at the time of application. Nonimmigrant foreign students who want to be issued Form I-20 (certificate of eligibility for a student visa) must meet the following requirements before they can be considered for admission: (1) Supply official or certified transcripts, mark sheets, and degree statements from all institutions they have attended; (2) Furnish evidence of adequate financial resources for self-support required of each foreign student; (3) The English proficiency of students whose first language is not English must include a TOEFL score of at least 575 (paper-based) or 250 (computer-based) exam; and (4) The student must have completed at least one academic year at an accredited college or university of the United States. The University of Nebraska Medical Center College of Dentistry is a state institution and preference is given to legal residents of the State of Nebraska. Dental education contracts presently exist with Wyoming whereby a limited number of state-approved legal residents are accepted to satisfy contract quotas.

A limited number of students from states other than Nebraska or contract states may be accepted for the freshman class.

A limited number of students may be admitted with advanced standing. Please refer to the previous section for additional details.

All men and women planning to attend the University of Nebraska Medical Center under Chapters 31, 34, and 35 of the educational assistance and vocational rehabilitation laws administered by the Veterans Administration should inquire at the Office of Academic Records, Student Life Center, Room 2047, UNMC, Omaha, or Office of Registration and Records, 207 Administration Building, University of Nebraska-Lincoln, before they register, to make sure all necessary arrangements have been made.

In accordance with University policy, UNMC prohibits the denial of admission or of Medical Center privileges to students or applicants on the basis of race, color, sex, national origin, age, handicap, or religious or political beliefs. These privileges include, but are not limited to, admission, class assignments, scholarships, fellowships, assistantships, and financial aid, as well as housing and recreational facilities. Furthermore, student organizations must base their selection of students for membership on criteria which will not include race, color, religion, sex, national origin, age or handicap.

Admittance to UNMC programs will not be denied to otherwise qualified handicapped individuals solely by reason of their handicap. Qualified handicapped persons are those who meet the academic and technical standards for each program. These nonacademic skills are essential to successful program completion.

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\*The College has no specific requirements regarding the absolute minimal scholastic average or DAT scores. In some cases, applicants who have a low scholastic average will be evaluated on their performance over the last three or four semesters of college. Applicants with this type of situation should have included some science courses in their schedule, with a suggested load of 14-16 hours per semester, and shown significant scholastic improvement.

In summary, UNMC policies are in accordance with: Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and Sections 799A and 854 of the Public Health Services Act.

All students must be legal residents of their states at the time of application.

## **TECHNICAL STANDARDS FOR ADMISSION TO THE COLLEGE OF DENTISTRY (DENTISTRY AND DENTAL HYGIENE)**

Decisions by the College of Dentistry Admissions Committee are based on prior scholastic achievement, personality and emotional characteristics, motivation, industry, resourcefulness, and personal health. Admission decisions do not discriminate on the basis of sex, race, creed, or national origin. Students must possess the intelligence, integrity, and personal and emotional characteristics appropriate to the successful dentist.

The University of Nebraska Medical Center/College of Dentistry is committed to the principle of providing an educational setting that facilitates the greatest success for all students, within their individual abilities, who are qualified for admission into the College. In that spirit, admission to the College is open to all qualified individuals in compliance with section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act.

The College is mindful of the unique nature of the dental curriculum. As a primary surgical specialty, the dental curriculum must include, in addition to the accumulation of certain scientific knowledge, the simultaneous acquisition of essential surgical skills, technical functions, and professional attitudes and behaviors. In the process, the student is required to direct or perform treatment on patients safely and within an acceptable amount of time. Students must possess the skills and abilities that will allow them to successfully complete the course of study and receive the full benefit of the education. With this in mind, any student or applicant seeking admission as a student (subsequently referred to herein as "student") must be able to meet the following technical standards with or without reasonable accommodations.

### **1. MOTOR SKILLS**

**GENERAL:** A student should have sufficient motor function such that she/he is able to execute movements reasonably required to provide general care and treatment to patients.

**SPECIFIC:** A student must possess the motor skills necessary to directly perform palpitation, percussion, auscultation and other diagnostic maneuvers, basic laboratory tests, and diagnostic procedures. Such actions require coordination of both gross and fine muscular movements, equilibrium, and functional uses of the senses of touch and vision.

**SPECIFIC:** A student must be able to perform basic life support (including CPR) and to position himself/herself around the patient and chair at heights and locations necessary to achieve effective patient treatment. The candidate must be able to operate all dental equipment and tools commonly necessary to the effective treatment of patients, operate high and low speed dental movements of less than one millimeter and utilize hand instrumentation (including scalpels for surgical procedures).

### **2. SENSORY/OBSERVATION**

**GENERAL:** A student must be able to acquire a defined level of required information as presented through demonstrations and experiences in the basic and dental sciences.

**SPECIFIC:** This includes but is not limited to: information conveyed through physiologic and pharmacological demonstrations in animals; and microbiological cultures and microscopic images of microorganisms and tissues in normal and pathologic states. A student must be able to acquire information from written documents, including charts and patient records, and to visualize information presented in images from paper, films, slides or video. A Student must interpret x-ray and other graphic images. A student must have functional use of visual, auditory, and somatic sensation while being enhanced by the functional use of sensory modalities.

**GENERAL:** A student must be able to observe a patient accurately, at a reasonable distance and close at hand, and observe and appreciate non-verbal communications when performing dental operations or administering medications.

**SPECIFIC:** A student must be able to perform visual and tactile dental examination and treatment including use of visual acuity with an ability to discern differences and variations in color, shape, and general appearance between normal and abnormal, soft and hard tissues. Use of tactile senses may be either direct palpation or indirect through instrumentation. A student must also possess the visual acuity to distinguish colors intra and extra orally and to make such visual observations as are necessary to provide diagnosis and treatment.

### 3. COMMUNICATION

**GENERAL:** A student must be able to: communicate effectively and sensitively with patients; convey or exchange information at a level allowing development of a health history; identify problems presented; explain alternative solutions; and give directions during treatment and post-treatment.

Communications include speech and writing. The student must be able to communicate effectively and efficiently in oral and written form with all members of the health care team.

**SPECIFIC:** A student must have sufficient facility with English to: retrieve information from texts and lectures and communicate concepts on written exams and patients charts; elicit patient backgrounds; describe patient changes in condition, symptoms, moods, activity, and posture; and coordinate patient care with all members of the health care team.

### 4. COGNITIVE

**GENERAL:** A student must be able to measure, calculate, reason, analyze, integrate, and synthesize.

**SPECIFIC:** In addition, a student must be able to comprehend three dimensional relationships and to understand the spatial relationships of structures. Problem solving, a critical skill demanded of dentists, requires all of these intellectual abilities. A student must be able to perform these problem solving skills in a timely fashion.

### 5. BEHAVIORAL

**GENERAL:** A student must possess the behavioral qualities and mannerisms required for full utilization of his/her intellectual abilities, the exercise of good judgment, the prompt completion of all responsibilities attendant to the diagnosis and care of patients, and the development of mature sensitive, and effective relationships with patients.

**SPECIFIC:** A student must be able to tolerate intellectually and physically-taxing workloads and to function effectively under stress. He/She must be able to adapt to changing environments to display flexibility, and to learn to function in the face of uncertainties inherent in the clinical problems of patients. Compassion, integrity, concern for others, interpersonal skills, interests, and motivation is all personal qualities that will be assessed during the admissions and educational processes. Further, a student must be able to manage apprehensive patients with a range of moods and behaviors in a tactful, congenial, personal manner so as not to alienate or antagonize them. A student must reasonably be expected to accept criticism and respond by appropriate modification of behavior.

The University of Nebraska Medical Center/College of Dentistry recognizes the award of a Doctor of Dental Surgery (DDS) degree carries with it the full authority of the institution and communicates to those who might seek the services of the bearer that he or she is competent to practice dentistry. The DDS degree is a broad degree unique in that the graduate is prepared and upon licensure is allowed to practice all disciplines of the dental profession. This requires that the student in the curriculum acquire didactic knowledge, as well as learning skills and attitudes essential to the profession and agreed upon by the faculty as requisite for the practice of dentistry. The student requires both cognitive and technical skills to satisfy the requirements of this curriculum.

Although the College may not inquire whether an applicant has a disability prior to making a decision on admission, an applicant may disclose during the admissions process a disability for which he or she wishes accommodation during the admissions process or upon admission. If this occurs, the College will, with the cooperation and input of the applicant, evaluate whether the applicant can perform the essential functions of the educational program, taking into account the accommodations that the applicant has requested or alternative reasonable accommodations that the institution would offer.

Upon admission, a student who discloses a disability and requests accommodation may be asked to provide documentation of his or her disability for the purpose of determining appropriate accommodations, including modification to the program. The College will provide reasonable accommodations, but is not required to make modifications that would fundamentally alter the nature of the program. The student must be able to perform all of the technical standards with or without reasonable accommodation to matriculate or continue in the curriculum. Costs of reasonable accommodations will be borne by the College, unless otherwise funded.

Requests for accommodation should be initiated with the Associate Dean for Academic Affairs, phone number (402) 472-1343.

## **APPLICATION PROCEDURE**

Students are enrolled in the College of Dentistry each August. Candidates should formally apply for admission approximately one year before they wish to be admitted to the College.

The College of Dentistry uses the American Association of Dental Schools Application Service (AADSAS) and, therefore, does not provide its own application form. AADSAS application may be obtained at [www.adea.org](http://www.adea.org). A minimum application fee of \$227 is charged by the Service. Applicants will be requested to submit transcripts from each college attended to the Application Service and also to the College of Dentistry. A separate application fee of \$50 is charged by the College of Dentistry.

Applicants will be required to take the Dental Admission Test (DAT) sponsored by the Council on Dental Education of the American Dental Association. Tests are given at Sylvan Learning Centers. Special attention is given to science scores. Should the applicant obtain scores below the national average, counseling is recommended before retaking the test. You can register for the DAT at [www.ada.org/dat.aspx](http://www.ada.org/dat.aspx).

**Application Deadline.** The application deadline is February 1. Early application is encouraged to give the Admissions Committee more time to evaluate the applicants. Applicants should not wait for DAT scores, transcripts, or other application materials before applying through AADSAS. Applicants' files will be updated as these materials are received.

**Interviews.** Applicants under serious consideration will be contacted to arrange personal interviews with the Admissions Committee. Interviews will not be granted at the request of applicants. Applicants who are not interviewed may counsel with their predoctoral advisers or the Admissions Committee coordinator.

**Letters of Recommendation.** The College of Dentistry does not require letters of recommendation; however, evaluations of a student's progress and potential by a predoctoral adviser or committee are appreciated.

**Applications for Advanced Standing.** Students may be admitted with advanced standing in the dental program. See the Program for Advanced Standing section for details.

The preceding paragraphs concern applications for admission to the College of Dentistry. Students interested in beginning study in predoctoral instruction at UNL should consult the General Information Bulletin of the University of Nebraska-Lincoln or inquire at the Office of Undergraduate Advising, 108 Administration Building, University of Nebraska-Lincoln, Lincoln, Nebraska 68588.

## COSTS AT THE COLLEGE OF DENTISTRY

Tuition and fees are set by the University Board of Regents and may be changed at any time. The current tuition and fee rates are available from the Registrar's Office, College of Dentistry. The following quotations are for the academic year 2010-2011 and are offered as guidelines only.

### UNIVERSITY OF NEBRASKA MEDICAL CENTER COLLEGE OF DENTISTRY ACADEMIC YEAR 2009-2010

#### DENTAL RESIDENT TUITION AND FEES

<u>CLASS OF 2014 (FRESHMAN)</u>	<u>1st Semester</u>	<u>2nd Semester</u>	<u>Summer Session</u>	<u>TOTAL</u>
Tuition	\$ 10,535.00	\$ 10,535.00	\$ 5,268.00	\$ 26,338.00
Student Fees	462.90	462.90	206.79*	1,132.59
Books & Instrument	3,657.00	3,657.00		7,314.00
Equipment Replacement Fee	1,000.00	1,000.00		2,000.00
Library Fee	<u>51.00**</u>	<u>60.00**</u>	<u>24.00**</u>	<u>135.00**</u>
<b>TOTAL</b>	<b>\$15,705.90</b>	<b>\$15,714.90</b>	<b>\$ 5,498.79</b>	<b>\$ 36,919.59</b>
<u>CLASS OF 2013 (SOPHOMORE)</u>				
Tuition	\$ 9,020.00	\$ 9,020.00	\$ 4,255.00	\$ 21,273.00
Student Fees	462.90	462.90	206.79*	1,089.90
Books & Instrument	3,657.00	3,657.00		7,314.00
Equipment Replacement Fee	1,000.00	1,000.00		2,000.00
Library Fee	<u>36.00**</u>	<u>75.00**</u>	<u>30.00**</u>	<u>141.00**</u>
<b>TOTAL</b>	<b>\$13,619.10</b>	<b>\$13,631.10</b>	<b>\$ 4,489.70</b>	<b>\$ 36,931.59</b>
<u>CLASS OF 2012 (JUNIOR)</u>				
Tuition	\$ 9,020.00	\$ 9,020.00	\$ 4,255.00	\$ 21,273.00
Student Fees	462.90	462.90	206.79*	1,089.90
Books & Instrument	3,657.00	3,657.00		7,314.00
Equipment Replacement Fee	1,000.00	1,000.00		2,000.00
Library Fee	<u>36.00**</u>	<u>75.00**</u>	<u>30.00**</u>	<u>141.00**</u>
<b>TOTAL</b>	<b>\$13,488.10</b>	<b>\$13,527.10</b>	<b>\$ 4,498.70</b>	<b>\$ 33,137.59</b>
<u>CLASS OF 2011 (SENIOR)</u>				
Tuition	\$ 8,509.00	\$ 8,509.00		\$ 17,018.00
Student Fees	448.10	448.10		896.20
Books & Instruments	3,475.00	3,475.00		6,950.00
Equipment Replacement Fee	1,000.00	1,000.00		2,000.00
Library Fee	<u>36.00**</u>	<u>48.00**</u>		<u>84.00**</u>
<b>TOTAL</b>	<b>\$14,063.90</b>	<b>\$14,075.90</b>		<b>\$ 28,139.80</b>

\*The fees listed are those charged for 2009 Summer Session and are subject to change for the 2010 year.

\*\*Library fee based on hours registered for and subject to change.

#### DENTAL NONRESIDENT TUITION

Tuition	\$24,368.00	\$24,368.00	\$12,184.00	\$60,920.00
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All other fees remain the same as for a resident student.

#### DENTAL PER CREDIT HOUR

Resident (Fr., So.)	\$878.00	Nonresident	\$2,031.00
Resident (Jr., Sr.)	\$751.75	Nonresident	\$2,031.00

**DENTAL HYGIENE TUITION AND FEES**

Dental Hygiene - Resident .....	\$ 198.25
Dental Hygiene - Nonresident .....	588.25
Dental Hygiene - Books & Instruments .....	1,770.00/semester
Equipment Replacement Fee.....	300.00/semester
Library Fee .....	3.00/credit hour
Dental Hygiene - Student Fees .....	462.90/semester
	206.79.*summer

**DENTAL AND DENTAL HYGIENE ESTIMATED LIVING EXPENSES**

Dental Students.....	\$1,700.00/month	Dental Hygiene Students.....	\$1,500.00/month
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Costs may vary (+/-) from the time of this printing.

**Residency information.** Students whose homes are not in Nebraska are considered nonresidents for tuition purposes. Nonresident students desiring to qualify for Nebraska residency may do so by meeting residency requirements as adopted by the Board of Regents on April 30, 1994. These regulations are on file in the registrar's office and may be reviewed during normal business hours.

**Tuition Refunds**

A student who withdraws from the University during a term for which he/she is registered is entitled to claim a refund of tuition. The University's current policy for a refund of tuition is:

First week .....	100%
Second week .....	75%
Third week .....	50%
Fourth week .....	25%
Fifth week .....	None

**SCHOLARSHIPS AND FINANCIAL AID**

**FINANCIAL AID**

***Judith Walker, Director***  
**Room 2051, Student Life Center**  
**(402) 559-4199**

The University of Nebraska Medical Center offers several financial aid opportunities to assist students in the financing of their health professions education. The UNMC Office of Financial Aid administers four basic types of aid; academic scholarship, grants, loans, and student employment.

Governed by the rules and regulations established by the U.S. Department of Education (Title IV) and the U.S. Department of Health and Human Services (Title VII) the Office of Financial Aid has adopted the consistent and equitable approach of awarding financial aid. The completion of the Free Application for Federal Student Aid (FAFSA) is required to be eligible for all federal student aid funds (Title IV and Title VII).

The PRIORITY filing deadline for federal financial aid is April 1. Applications received on or before April 1 will receive priority consideration in the awarding of campus based grants and loans.

Scholarships are awarded by the scholarship committees of each UNMC college: Allied Health, Dentistry, Medicine, Nursing, Pharmacy, and Graduate Studies. The Office of Financial Aid does not award scholarships. The timing of scholarship announcements is based on the committee's selection of recipients. To ensure an equitable distribution of all financial aid, students are notified of their financial aid awards after scholarship selection committees have announced their scholarship recipients.

The UNMC Office of Financial Aid reserves the right to revise a student's award package based on changes to a student's status, outside funding received by a student, or changes in funding received at UNMC after the award letter is delivered. Students will be notified in writing of any changes made to their awards. Questions regarding financial aid may be directed to (402) 559-4199 or 1-800-626-8431. An open door policy is maintained in the Office of Financial Aid. Appointments are preferred but are not required.

**TITLE IV FEDERAL FINANCIAL AID** - The following programs are governed by the U.S. Department of

Education rules and regulations. These programs are considered to be campus based programs at UNMC. The Free Application for Federal Student Aid (FAFSA) electronic data must be received in the Office of Financial Aid before April 1 to be considered for these 'priority funds'.

**FEDERAL PERKINS** - The Federal Perkins Student Loan Program is a subsidized student loan (interest free) through graduation and nine month grace period. A 5% interest rate is assessed on the loan in repayment.

**FSEOG** - Federal Supplemental Educational Opportunity Grant. Available to undergraduate Pell grant recipients only.

**FWS** - Federal Work Study Program. Student employment on campus at \$8/hour during the academic year. The recommended summer employment salary is \$10/hour but may be more or less depending on budget of the hiring department. All students are encouraged to participate in a UNMC work experience if their time and schedule permit. Sufficient funds are available to fund anyone who wants to work. The Office of Financial Aid prefers to award these funds to students who specifically request the opportunity to work on campus. Students are encouraged to contact the Office of Financial Aid for job placement, and hire if sincerely interested in working. These funds are federal student aid and do require the completion of the FAFSA and the student worker must demonstrate financial need.

**TITLE VII FEDERAL FINANCIAL AID** - The following programs are governed by the U.S. Department of Health and Human Services rules and regulations. To be considered for HHS funding, the Department of Health and Human Services requires the parent financial information on the FAFSA. This regulation can not be waived for any student regardless of their independent status (married, children, age, graduate professional status).

**PCL** - Primary Care Loan Program: Available to senior medical students matching in Primary Care, Family Practice Medicine, Internal Medicine, Pediatrics. Students may borrow this loan to repay Stafford Subsidized/Unsubsidized Student loan debt before entering residency. Recipient must agree to practice in an approved primary care health career until the loan is repaid in full. Complete guidelines and promissory note regulations are available upon request.

**HPSL** - Health Profession Student Loan: Available to Dentistry and Pharmacy students only. Awards are contingent on funding availability. Subsidized (interest free) student loan through graduation and one year after graduation. A 5% interest rate is assessed on the loan in repayment.

**NSL** - Nursing Student Loan: A subsidized (interest free) student loan through graduation and one year after graduation. A 5% interest rate is assessed on a loan in repayment. Because of very limited funding, this loan is made available to full time undergraduate nursing students only.

Students are advised to visit the UNMC Financial Aid web site for more in depth financial aid information.

## **REFUND AND REPAYMENT POLICIES REGARDING LOANS, GRANTS AND SCHOLARSHIPS DISBURSED TO STUDENTS WHO WITHDRAW**

### **STUDENT LOANS & SCHOLARSHIPS/GRANTS**

When a student receives student financial aid (federal/state/institutional) funds to attend an institution and subsequently takes a Leave of Absence (LOA), withdraws from the program, is dismissed, or fails to complete the period of enrollment for which the funds were received, federal law requires the institution to make a timely refund of "unearned tuition, fees, and other institutional charges" as assessed by the institution. The institution must also determine if the student owes a "repayment" of unearned funds that the institution either disbursed to the student directly or credited directly to the student's account for living expenses. Students are **strongly encouraged** to visit the Office of Financial Aid **before** starting any LOA or withdrawal process. The Office of Financial Aid will provide you with a complete analysis of your rights and responsibilities as they pertain to the financial aid process when considering a withdrawal or LOA. Before considering a LOA or withdrawal students should read the federal policy governing Satisfactory Academic Progress found on pages 76-77 of the Student Handbook.

### **REFUND OF STUDENT FINANCIAL AID FUNDS**

Federal student financial aid is provided to students to fund their direct and indirect costs as determined by the institutional cost of education. Failure to complete a required term of enrollment may result in the student's need to refund or repay federal student financial aid for costs not incurred. The federal student aid regulations do not follow the institutional refund policy guidelines. Rather, the federal government imposes a much stricter policy of attendance and cost. While the institution may impose a 100% penalty of tuition and fees after the fifth week of class, the U.S. Department of Education regulates that until a student completes 60% of each term, a refund or repayment of aid

may be required if the student fails to complete the term of enrollment.

UNMC policy dictates that you owe 100% of your tuition and fees if you withdraw from any or all classes after the fifth week of the semester. However, based on a 15 week semester, you will have only completed 40% of the term according to the U S Department of Education. If you were awarded federal student aid dollars to pay your costs, UNMC would not be entitled to keep 100% of the federal dollars used to pay your costs. Rather they could only retain 40% of the federal dollars. The Office of Financial Aid would be required to recover 60% of the funds off of your account and 'refund' them to the U.S. Department of Education or your student loan lender. But, because UNMC policy dictates you owe 100% your still owe 100%. The Office of Financial Aid would refund (return) funds to the U S Department of Education or your student loan lender and BILL you AGAIN for the payment of the 60% returned.

**Students receiving federal student financial aid are required to visit the Office of Financial Aid prior to finalizing the LOA or withdrawal.**

## **REPAYMENT OF STUDENT FINANCIAL AID FUNDS**

In addition to receiving funds for your direct costs (tuition and fees), you also are provided funds for your living expenses. Failure to complete a term of enrollment will result in the "repayment" of funds for periods of non enrollment. For this policy, financial aid is considered to be used first for payment of tuition, fees, and other payments to the University. Therefore, all or part of any unearned funds will be used to reimburse financial aid programs. If a student withdraws from the University for any reason, student financial aid dollars must be returned to the Office of Financial Aid for refund and repayment to the respective federal aid programs. In accordance with federal laws, the following fund priority listing will be used when refunding and repaying funds to Title IV and non Title IV aid programs for the academic term involved.

### **a. Title IV Program**

1. Unsubsidized Federal Stafford Loan  
Loan (HPSL)
2. Subsidized Federal Stafford Loan
3. Federal Perkins Student Loan (FPSL)
4. Federal Parent Loan (FPLUS)
5. Federal Pell Grant  
Scholarship/Grant
6. Federal Supplemental Ed Op (FSEOG)
7. State Student Incentive Grant (SSIG)  
Loans/Grants/Scholarships

### **b. Non-Title IV Programs**

1. Health Profession Student
2. Nursing Student Loan
3. Other Federal Grants
4. State Grants
5. University
6. University Loan
7. Private

Students may visit the Office of Financial Aid to review the complete set of regulations, and worksheets used to calculate any refund or repayment due from students. Completion of refund repayment calculations and completion of the required exit paperwork takes approximately one hour. We request that students make an appointment to discuss and review all of the responsibilities associated with the refund and/or repayment of federal student aid.

Failure to return financial aid to the appropriate programs will result in reporting the over-award to the U.S. Department of Education. This will result in denial of future financial aid at any institution, withholding of UNMC academic transcripts, denial of future registration at UNMC. Your student accounts may be turned over to a collection agency to collect any debts owed to UNMC.

## **SATISFACTORY ACADEMIC PROGRESS FOR FINANCIAL AID**

Federal regulations require that minimum standards of satisfactory academic progress be established for a student receiving Federal financial aid. These policies must be the same as, or stricter, than the institution's standards for a student enrolled in the same educational program who is not receiving assistance under the Title IV/Title VII programs.

Each University of Nebraska Medical Center college/school has established a standard curriculum for each degree/certificate program and academic performance standards. The standard curriculum also establishes time allowed to complete each increment of the curriculum. The very selective admissions criteria for all UNMC Programs

imply normal progress expectations from admitted students. Regularly admitted and enrolled students are expected to achieve progress according to college/school standards. These standards apply to each academic year or any portion thereof if enrolled for less than an academic year.

1. Students who have completed two or more years of college (all course work) must have achieved and maintain a cumulative grade point average of at least 2.0. Students not meeting this standard will be suspended from financial aid eligibility until such time as the 2.0 GPA requirements is met. The suspension may be waived because of special circumstances (illness, injury, etc.).
2. Undergraduate students must complete their program within 150% of the published length of the educational program, measured at full time status (i.e. Nursing program is 5 semesters; students must complete program in 8 semesters or be terminated from financial aid). Students enrolled at less than full time status must follow this standard as well (i.e. ½ time enrollment Nursing program 10 semesters; students must complete program in 15 semesters or be terminated from financial aid).
3. Students choosing to enroll in a program of less than full-time status must, each academic year, in addition to 1 and 2 above: Complete 100% of the cumulative yearly hours attempted.
4. In addition the following standards apply:

**College of Medicine:** Full-time enrollment; MAINTAIN GRADES COMPATIBLE WITH ADVANCEMENT, complete 100% of the cumulative yearly hours attempted or progress to the next level of the program. Students required to repeat any academic year shall be suspended from financial aid for the “REPEAT” year unless granted an appeal from the financial aid office.

**College of Dentistry:** Full-time enrollment; maintain a minimum GPA of 2.0. Complete 100% of the cumulative yearly hours attempted or progress to the next level of the program. Students required to repeat any academic year shall be suspended from financial aid for the “REPEAT” year unless granted an appeal from the financial aid office.

**College of Pharmacy:** Full-time enrollment; maintain a minimum GPA of 2.0. Complete 100% of the cumulative yearly hours attempted or progress to the next level of the program. Students required to repeat any academic year shall be suspended from financial for the “REPEAT” year unless granted an appeal from the financial aid office.

**School of Allied Health:** Full-time enrollment; maintain a minimum GPA of 2.0. Complete 100% of the cumulative yearly hours attempted or progress to the next level of the program. Students required to repeat any academic year shall be suspended from financial aid for the “REPEAT” year unless granted an appeal from the financial aid office.

**College of Nursing:** Full-time enrollment; maintain a minimum GPA of 2.0. Complete 75% of the cumulative yearly hours attempted or progress to the next level of the program. Grades of D and below do not count as completed hours when measuring the 75% completion rate. Please refer to the College of Nursing Catalogue for information on grade evaluations.

**Graduate Studies:** Maintain a minimum GPA of 3.0. Complete 100% of the cumulative yearly hours attempted. Be enrolled a minimum of five (5) credit hours per term. (Cost of education will be based on hours of enrollment.) Graduate students are eligible for financial aid for those classes which are required for the Masters or Doctoral degree only.

The Medical Center Campus changed its grading system for graduate students to conform with the system wide grading system. As of the Fall 2001 Semester, the following plus/minus grading scale will be in use:

A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
4.0	4.0	(3.67)	3.33	3.0	(2.67)	2.33	2.0	(1.67)	1.33	1.0	(0.67)	0.0

It is the policy that **graduate students must maintain a 3.0 grade point average**. A grade point average of B- is not acceptable.

**GRADES** of (F) Failing, (I) Incomplete, (W) Withdraw, (WP) Withdraw Passing, (WF) Withdraw Failing and (NR) No Report will count as hours attempted but will not count as hours completed.

Academic Year is defined as the period of time established by each college/school in their academic calendar. Progress shall normally be measured as soon as possible after the end of each academic year. Students failing to meet the above standards or students academically suspended from their college shall be suspended from financial aid eligibility.

Reinstatement of aid eligibility will occur when the student meets the minimum GPA requirements and progresses to the next level of the program. Students will be notified, in writing, by the Office of Financial Aid of their aid suspension upon receipt of progress advisement from colleges/programs. Students enrolled in programs with

academic calendars greater than nine (9) months are advised to review their progress with their program in the Spring to determine the likelihood of not meeting the above standards and plan accordingly.

**Appeal and Reinstatement of Financial Aid Eligibility:** If extenuating circumstances have affected a student's progress, a written appeal must be received by the Financial Aid Office within 30 days of the date of the suspension notification. The following circumstances may qualify for a legitimate appeal:

- a. Student illness requiring physician's care in excess of several weeks.
- b. Major illness or death in the student's immediate family (spouse, mother, father, child, etc.)
- c. Legal issues which force the student to compromise class attendance for an extended period of time.

The appeal may be submitted by the student and/or parent along with appropriate documentation. Appeals will be reviewed and a written response sent to the student within ten days of the decision. Students granted financial aid, based on appeal, will have their progress monitored at the end of each academic semester. Failure to maintain standards during an academic semester may result in financial aid suspension for ensuing semester.

Students are granted only one appeal and reinstatement of aid for their UNMC education. Students who are required to repeat courses/semesters/academic years more than once are suspended from financial aid until such time they progress to the next level of curriculum.

## **TEXTBOOKS, INSTRUMENTS, AND MATERIALS**

All required textbooks and dental instruments issued to the student remain the property of the College of Dentistry. As these items become needed for the various courses, they are issued to the student. Upon completion of the course and the conferring of the degree, all issued equipment and instruments are to be returned to the College in satisfactory condition.

If any issued item is lost or damaged beyond usefulness, the student must replace it at his/her own expense. If for any reason additional supplies become necessary, the student must pay for the needed item(s).

Should a student leave the College before graduation with a degree, all issued books, instruments, and unused supplies must be returned to the College of Dentistry before any University Tuition and General Fee refunds will be made. The College does not furnish pens, pencils, notebooks and paper.

## **Dental Student Book, Equipment & Supply Policy Class of 2004 and Subsequent Years**

### **Books:**

All books issued to students by the College are issued on a lease purchase arrangement until the student graduates from the College. Upon completion of the dental or dental hygiene program and the conferral of the D.D.S. degree, all issued books become the property of the student.

### **Equipment:**

Equipment and dental instruments are leased to students and checked out as needed for specific purposes. They are to be returned in satisfactory condition. Students are responsible for payment for damaged or lost equipment and dental instruments as follows:

### **Handpieces and Titan Scalers**

- First \$100 of repair cost for damaged handpieces/handpiece components or Titan Scalers
- 50% replacement fee for 1<sup>st</sup> lost handpiece/handpiece components (either high speed or slow speed handpiece/components)
- 50% replacement fee for 1<sup>st</sup> lost Titan Scaler
- 100% replacement fee for lost handpieces/components and Titan Scalers after 1<sup>st</sup> lost handpiece/components or Titan Scaler

### **Hand Instruments**

- No charge for 1<sup>st</sup> 10 damaged hand instruments (*if exchanged for a new instrument*)
- \$4/hand instrument for 1<sup>st</sup> 10 lost hand instruments
- Full replacement fee for damaged or lost hand instruments after the 1<sup>st</sup> 10 damaged/1<sup>st</sup> 10 lost

**Other Equipment and Instruments** (including but not limited to articulators and cassettes)

- First \$100 of repair cost for damaged other equipment or instruments
- 50% replacement fee for lost other equipment or instruments

**Fees for Supplies and Services:**

Students pay a service fee which provides for printed, photocopied or electronic course materials, basic and preclinical laboratory supplies, use and laundering of COD clinic gowns, pre-clinical and clinical dispensing services and other items or services necessary for student participation in the academic programs at the College.

**Withdrawal of Students:**

If a student leaves the program before graduation, all equipment and supplies must be returned before the College will authorize any University tuition and general fee refunds, release of transcripts and letters of recommendation or any other information as determined by the College.

If a withdrawing student wishes to have a refund on books, the returned books will be submitted by the College of Dentistry to the UNMC Bookstore for possible acceptance for refunds. A student will be eligible to receive any refunds issued by the UNMC Bookstore up to a maximum determined by the College of Dentistry. The maximum will take into account recapture of subsidy for books by the College of Dentistry. The student may keep any books for which the UNMC Bookstore will not issue a refund.

**HOUSING FACILITIES**

Information about available housing for families or single students can be obtained from the Division of University Housing, 1100 Seaton Hall, University of Nebraska-Lincoln, Box 880622, Lincoln, Nebraska 68588-0622.

**PLACEMENT SERVICE**

The College of Dentistry maintains a placement information service for students and recent graduates to aid them in finding practice locations and associateship opportunities. Dentists who wish to sell their practice or acquire an associate may contact the College to have the opportunity listed and presented to students.

**STUDENT INFORMATION**

The College of Dentistry and the Division of Student Services of the Medical Center regularly publish Student Handbooks, which contain information on many subjects of interest to students. Handbooks may be obtained from the registrar at the College.

Commercial entities may provide for UNMC students' education if:

1. Permission has been provided by appropriate administrative personnel (e.g., deans, core/clerkship director for medical students, preceptors for pharmacy students, etc.) and determination has been made that the support makes a legitimate contribution to the educational process.
2. The commercial support does not interfere with the educational process.
3. Support is available to a group, rather than an individual (some exceptions for educational reasons to this may be possible with a relevant dean's approval).
4. The student will incur no obligations based on the commercial support.

Commercial support must be acknowledged appropriately. Individuals representing the entity providing the support will not be allowed to make presentations. Any contact with the students by individuals representing commercial entities will be dependent on voluntary student participation.

## **DEGREES**

### **DOCTOR OF DENTAL SURGERY**

The candidate for this degree must have completed the prescribed curriculum, passed the necessary examinations, and received the required credits.

### **COMBINED DEGREES OF BACHELOR OF ARTS OR BACHELOR OF SCIENCE AND DOCTOR OF DENTAL SURGERY**

By completing the group requirements of the UNL College of Arts and Sciences and one minor under Plan A (or two minors under Plan B) and by use of the subjects of the first year of the dental course as a major, the student can qualify to receive the UNL degree of Bachelor of Arts or Bachelor of Science at the end of the first year in the College of Dentistry. For group requirements consult the UNL College of Arts and Sciences Bulletin.

Other Colleges and Universities may have similar arrangements but it is the student's responsibility to determine that information and to meet the requirements of the institution awarding the degree. The awarding of the B.A. or B.S. is not done by the College of Dentistry.

### **DEGREE WITH DISTINCTION**

In recognition of outstanding academic excellence, the College of Dentistry may award the degree of Doctor of Dental Surgery with distinction, with high distinction or with highest distinction.

### **HONORS**

An Honors ceremony is held each year to recognize students who excel in scholarship. In addition, senior students who have shown special proficiency and have excelled in their studies are recognized at commencement.

Graduation with honors is conferred in the following way:

1. The degree "with highest distinction" is awarded to students with a cumulative grade point average of 3.95 or above. (Final semester grades are not included and total hours at the College must exceed 60.) The student must also present a thesis or comparable creative effort which is suitable for submission for publication and is acceptable to the Academic Affairs Committee.
2. The degree "with high distinction" is awarded to students with a cumulative grade point average of 3.85 or above. (Final semester grades are not included and total hours at the College must exceed 60.)
3. The degree "with distinction" is awarded to students with a cumulative grade point average of 3.75 or above. (Final semester grades are not included and total hours at the College must exceed 60.)

Alpha Alpha Chapter of Omicron Kappa Upsilon, the dental honorary fraternity, was chartered at the College of Dentistry in May, 1929. The Alpha Lambda Chapter of Sigma Phi Alpha, the dental hygiene honorary society, became associated with the University of Nebraska in 1967. Election to these honorary societies is based upon scholarship and conduct throughout the educational program.

## **ADVANCED TRAINING**

Advanced training for students at the College of Dentistry may take one of three forms: graduate education, certificate training in a clinical area or specialty, or continuing education.

The Medical Sciences Interdepartmental Area (MSIA) Graduate Program is part of the graduate program of the University of Nebraska and is administered by the Graduate College of the University of Nebraska Medical Center.

The certification programs are administered by the College of Dentistry and applicants must hold a D.D.S.

or D.M.D. degree or equivalent to be considered for admission to these professional educational programs.

## **GRADUATE EDUCATION**

The Medical Sciences Interdepartmental Area (MSIA) Graduate Program is intended to prepare qualified applicants for careers in research and teaching. This program has a flexible curriculum including academic coursework and laboratory research designed for the student interested in working towards a traditional research oriented biomedical sciences Master of Science or the Doctor of Philosophy (Ph.D.) degree. The program is offered at the College of Dentistry under the auspices of the Department of Oral Biology which participates along with 11 other departments in this major graduate program at the Medical Center. A qualified student with an interest in the biomedical sciences may apply but must have a bachelor's degree with a B average or better. Ordinarily a Master of Science program requires at least two years and a Ph.D. program requires at least four years of study. Please consult the UNMC Graduate Studies web site for further details at: [www.unmc.edu](http://www.unmc.edu).

## **COMBINED DEGREES OF MASTER OF SCIENCE OR DOCTOR OF PHILOSOPHY AND DOCTOR OF DENTAL SURGERY**

Qualified dental students who are interested in working towards a dental degree and a graduate degree concurrently may do so by gaining admission to the MSIA graduate program while in dental school. Applications for entrance are processed through the Graduate College but the scheduling of classes and conduct of the research are done at the College of Dentistry. Applicants for a combination program must meet admission requirements to both the College of Dentistry and the Graduate College and should expect to spend a longer period of time meeting the combined requirements than meeting College of Dentistry requirements alone.

## **CERTIFICATION PROGRAM**

Postgraduate programs at the College of Dentistry lead to attainment of a Certificate of Specialization in Endodontics, Orthodontics and Dentofacial Orthopedics, Pediatric Dentistry, Periodontics, and a Certificate of Completion in General Practice (GPR). All programs are under the direction of the College of Dentistry Postgraduate Education Committee.

Postgraduate programs at the College of Dentistry are open to graduates of American Dental Association-accredited D.D.S. and D.M.D. programs in the United States and Canada or, in a very few cases, equivalent programs in foreign countries. Candidates for a dental degree may be provisionally accepted into postgraduate programs pending the awarding of their dental degree. In order to be accepted into programs in Pediatric Dentistry, or General Practice students must be able to obtain a Nebraska dental license.

Admissions to pursue postgraduate work are limited to the number which can be handled to the advantage of the students and the College. Preference will be given to those who have adequate preparation and aptitude for their chosen program. All programs start in July 1 of each year.

Applicants with dental degrees from colleges or universities in which instruction is in a language other than English will be required to demonstrate acceptable proficiency in English before their application will be considered. Proficiency will be evaluated by the program director from the area to which the applicant is applying and must include a minimum score of 550 from the Test of English as a Foreign Language (TOEFL). Foreign applicants also must take the Graduate Record Examination (GRE).

Application forms may be obtained from the College of Dentistry Postgraduate Programs Office or as described below. Application deadlines (the year preceding program starting dates):

Endodontics	August 15
Orthodontics and Dentofacial Orthopedics	September 1
Pediatric Dentistry	October 1
Periodontics	August 1
General Practice (GPR)	March 15

Students interested in Pediatric Dentistry, Endo, or Ortho may apply through the Postdoctoral Application Support Service (PASS) or directly to UNMC. To obtain a PASS application form please contact PASS, American Dental Education Association, 1625 Massachusetts Avenue, N.W., Suite 600, Washington, D.C. 20036-2212, or download and print the PASS application from the internet at <http://www.adea.org/student-applicant/default.htm>. Ortho and

Pediatric programs also participate in the National Matching Program. The address for this service is: National Matching Services, P.O. Box 1208, Lewiston, NY 14092-8208 or information is available via the internet at <http://www.natmatch.com/dentres>

Students having specific questions about applications, fees, stipends, curriculum, etc., should contact the program director of the specific program to which they are applying:

Endodontics	Dr. Tom G. Gound
Orthodontics and Dentofacial Orthopedics	Dr. Sundaralingam Premaraj
Pediatric Dentistry	Dr. Scott Hamilton (Interim Director)
Periodontics	Dr. Matt Byarlay
General Practice (GPR)	Dr. Timothy Durham

## **CONTINUING EDUCATION COURSES**

These are of short duration, designed as updates, reviews and new techniques for dental professionals. The courses are administered by the Director of Continuing Education. All inquiries concerning such courses should be made to the Director of Continuing Education at the College of Dentistry.

## **DEAN'S ADVISORY COUNCIL**

The Dean's Advisory Council is composed of Nebraska dental professionals who contribute sound advice for the determination of policy and the operation of the dental hygiene, dental and postgraduate dental educational programs of the College of Dentistry. The Council meets regularly with the administration of the college for an exchange of ideas.

The members of the Council keep the College of Dentistry apprised of the dental health needs of the state, the educational criteria required to fulfill those needs, and contribute an element of practicality and relevancy to the educational goal setting.

Members of the Council represent the College of Dentistry in their geographic areas and address themselves to communication between the people of the state and the College. They also counsel prospective applicants and assist in course programming in continuing education.

## **CONDUCT REGULATIONS**

The Board of Regents authorizes the president, chancellors, vice chancellors, and deans of student affairs to take necessary action for the maintenance of order, normal operations of the University, and to protect individual freedom by involving policies outlined in the statement on campus disorders adopted by the Board of Regents.

Students or staff whose conduct interferes with the holding of classes, the carrying forward of University business, organized and scheduled University events, or the discharge of responsibility by any University officer, employee, or student will be subject to laws covering such behavior and disciplinary action. The president, chancellors, vice chancellors, and deans will be expected to initiate disciplinary action.\*

## **CAMPUS SECURITY**

To maintain clean and usable facilities for students and staff, it is necessary to regulate the use of such facilities. Students are expected to observe closing hour regulations for all campus buildings. Use by students beyond established hours should be by special permission from the Dean's office with notification to the UNL Police.

Prospective students may request information concerning campus crime statistics by contacting the COD Office of the Associate Dean or by logging on to [www.unl.edu/unlpd/upd.html](http://www.unl.edu/unlpd/upd.html) or <http://ope.ed.gov/security>.

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\*Taken from University of Nebraska Medical Center *College of Dentistry Operations Manual*.

## STUDENT RIGHTS AND RESPONSIBILITIES

The Bylaws of the Board of Regents protect the rights of each member of the University community. Each individual has the right to be treated with respect and dignity and each has the right to learn. With these rights comes the responsibility of each individual to maintain an atmosphere in which others may exercise their human rights and their right to learn. Chapter V of the Bylaws fully delineates the rights and responsibilities of students.

## GENERAL PROCEDURES FOR APPEALS OF ACADEMIC EVALUATIONS

In accordance with Section 5.3 of the Bylaws of the Board of Regents, the University of Nebraska Medical Center has established a grade appeal procedure which students should follow if they feel their academic progress has been evaluated unfairly. A summary of this procedure may be found in the UNMC Student Handbook and the College of Dentistry Policies and Procedures Manual.

## GENERAL PROCEDURES FOR STUDENT DISCIPLINE

In accordance with Section 5.4 of the Bylaws of the Board of Regents and to ensure the protection of student's rights, the University of Nebraska Medical Center has established general procedures which must be followed if any disciplinary action is proposed against students. Students will be informed in writing by the Dean's Office of the specific charges, the supporting evidence, and the proposed disciplinary action. The Dean's Office will also inform students of their right to appeal. The UNMC Procedural Rules Relating to Student Discipline may be found in the UNMC Student Handbook and the College of Dentistry Policies and Procedures Manual.

## LIBRARY REGULATIONS

Specific regulations regarding the use of library facilities and other library information are available from the College of Dentistry. Students are expected to be aware of and observe these regulations and to pay penalties incurred.

## PARKING

All students are required to comply with the UNL Parking and Traffic Rules and Regulations. Copies are available at the University Parking Services, 1941 'Y' Street. There is an annual parking permit fee. It is a violation of the Code of Student Discipline for a student to park in the patient parking lot. Violations will be considered for disciplinary action.

## GENERAL REGULATIONS AFFECTING STUDENTS\*

**Honesty\***. (1) Students are expected to be honest in all aspects of their course work. (2) Students are expected to respect property rights of individuals, of groups, of the University, and of the community. (3) Students are expected to respect the integrity of official documents and credentials and refrain from any falsification of forms or signatures.

**Morality\***. It is not the intention of the University to determine moral codes for individuals, but students are expected to determine and live by moral principles appropriate to the society in which they live. There are standards of decency and decorum which responsible citizens expect from a community of scholars. In the interest of education such matters are of concern to the University community.

**Drugs.** The illegal use of drugs (including alcohol, barbiturates, cocaine, hallucinogens, marijuana, etc.) or contributing to such use by others is in strict violation of the University of Nebraska College of Dentistry rules and of state and federal laws. The UNMC Student Handbook contains a full statement of the Student Substances Abuse or Dependency policy.

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\*Taken from University of Nebraska Medical Center *College of Dentistry Operations Manual*.

## SCHOLASTIC REGULATIONS

It is hoped that no student will have scholastic difficulties. Those who do experience trouble with one or more courses are urged to request a conference with the instructor or instructors involved. The Academic Affairs Committee, the dean for academic affairs and the dean for student affairs are also available to advise and assist students.

## ATTENDANCE

No student may be admitted later than 10 days after the opening of an academic session except by special permission of the Dean. It is very much to the advantage of each student to register and be in attendance for classes at the very outset of each semester.

No credit is granted to any student for matriculation or attendance where such attendance is less than one semester in duration. Moreover, each student must remain in continual attendance during each semester for which credit is sought. If, for any reason, a student leaves the program and subsequently returns to the University, the student must satisfy all requirements for graduation as exists at the time of the continuation of his/her studies.

Attendance at all regularly scheduled class and clinical sessions are required. There is no University policy permitting class cuts and attendance in class and clinic will be monitored. Each course director determines the method of monitoring attendance for his/her course. Failure to attend class or clinic could result in failure of a course.

Planned absences should be worked out in consultation with course directors, appropriate clinical staff and patients as necessary.

For situations involving unplanned absence from class or clinic, appropriate arrangements are made directly by the student with any patients scheduled and the College is to be called at 472-1301 to report the absence. The clinic receptionist will notify the registrar's office and the clinical clerks of the absence. Students are responsible for all course requirements regardless of the reason for the absence, so it is important that instructors are informed and that students maintain a clear understanding of what must be done to meet course requirements.

For unusual circumstances, a temporary leave of absence may be recommended by the Academic Affairs Committee to the dean, who shall determine the granting of such status. Such leave does not excuse a student from meeting all course requirements. In case of illness, a student will usually need a written statement from the University Health Center or a private physician. Neither absence nor an excuse relieves anyone from meeting all course requirements. Excessive absences may result in a lowered or failing grade in the course.

## AVAILABILITY

As part of the educational experience and professional responsibility, each dental student must be available for emergency treatment of assigned patients during other than regular hours. Students are encouraged to live in the area.

## GRADING SYSTEM

	<b>Grade</b>		<b>Grade</b>
<b>Grade</b>	<b>Point</b>	<b>Grade</b>	<b>Point</b>
A+	4.0	C+	2.33
A	4.0	C	2.0
A-	3.67	C-	1.67
B+	3.33	D+	1.33
B	3.0	D	1.0
B-	2.67	D-	.67
		F	0.0

\*Some courses are graded differently. The grading system will be presented at the beginning of each course.

W: Withdrawal - Authorized withdrawal

P: Pass - Acceptable achievement for course enrolled under pass/no pass option

NR: No Report - Administrative entry for a grade not submitted by an instructor. Temporary assignment only. The entry NR may be used by an instructor at the end of a term to designate that requirements of the course were not met for reasons beyond the control of the instructor or student or for situations in which the instructor determines that the entry of NR is appropriate. The entry of NR is not to be used when a legitimate grade has been earned or when an incomplete 'I' should be assigned. When an entry of NR is used the instructor must specify the requirements for completing the course and the date by which the course is to be completed which

may be no later than the end of the next semester. Failure to complete the requirements by the date specified will result in the NR being changed to an 'F' automatically unless an extension is granted by the Dean. An 'F' grade assigned in this way is not subject to the grade appeal process. The College of Dentistry NR Report Form is used for this purpose and must accompany the official grade sheet when it is submitted to the registrar's office.

- I: Incomplete - Temporary assignment only. The grade of 'I' may be used by an instructor at the end of a term to designate incomplete work in a course. It may be used only when a student is unable to complete the requirements of the course in which he/she is registered for credit because of illness, military service, hardship, or death in the immediate family. Incompletes should be given only if the student has already substantially completed the major requirements of the course.

If a grade of Incomplete is received in the first (fall) semester, it must be removed by the end of the first eight weeks of the following second (spring) semester. When a grade of Incomplete is received in the second (spring) semester, the Incomplete must be removed during the summer session, before the student can register for the subsequent academic year. A student failing to remove an Incomplete in the allotted time will receive a grade of 'F' automatically. An 'F' grade assigned in this way is not subject to the grade appeal process.

## STANDARDS FOR ACADEMIC PERFORMANCE

If a student does not:

1. achieve a semester/session grade point average (GPA) of 2.0, or
2. maintain a cumulative GPA of 2.0, or
3. receive a passing grade in a course,

the student will be placed on academic probation for a length of time determined by the Academic Affairs Committee or may be dismissed from the College after due hearing by the Academic Affairs Committee. **Probation ordinarily will not last longer than three (3) semesters/sessions.**

A failed subject must be absolved by registration in and satisfactory completion of the course at a time approved by the department chairperson and the course director. If, by the end of academic probation, the student does not:

1. achieve a semester/session GPA of 2.0, and
2. maintain a cumulative GPA of 2.0, and
3. pass the course the next time it is offered or remove the deficiency, the student is not eligible for registration and will be dismissed from the College.

A student who has failed the same subject twice, here or elsewhere, or who fails more than one course in any academic semester or session, or has a cumulative GPA below 2.0 for two (2) consecutive semesters/sessions, or does not resolve probation within the time limits as specified will be dismissed from the College of Dentistry.

Any student dismissed for academic reasons may petition for readmission. The Academic Affairs Committee shall act on the petition for readmission and shall recommend the academic readmission level. This recommendation shall be forwarded to the dean for final approval.

Under unusual circumstances, a student may petition for permission to repeat the entire year. This petition must be received at least two weeks before the end of a semester or the summer session. It shall be the responsibility of the - Academic Affairs Committee to recommend to the dean the granting of this privilege.

Incidents of poor patient management, major deficiencies in technical skills, unprofessional or disruptive conduct and unnecessary damage to treated or adjacent teeth and soft tissue may result in suspension from clinic, laboratory, or class as well as failure of the course.

Students who exhibit deficiencies in didactic and clinical areas may be required to complete remedial training before regaining attendance privileges.

The faculty reserves the right to dismiss a student from the College of Dentistry whenever he/she does not, in its judgment, show sufficient promise to justify allowing him/her to continue studies regardless of grades. Students at all times are expected to conduct themselves in a professional manner. Misconduct, both in or out of the College, will not be tolerated and may serve as grounds for dismissal.

**The faculty of the College of Dentistry has determined that violation of the Academic Integrity and Professional Guidelines such as cheating, academic misconduct, fabrication and plagiarism shall automatically result in failure of the course.**

The faculty of the College has also determined the following program requirements and time limits.

1. There will be a time limit of six (6) years in attendance to earn the D.D.S. degree. A student will be allowed only three years to complete the first two years of the dental program and only three year to complete the last two years of the dental program.
2. There will be a time limit of three (3) years in attendance to earn the B.S. in Dental Hygiene degree.
3. Successful completion of all prior coursework and Part I of the National Dental Board examination will be required for promotion to and registration for any courses in the D-3 year.
4. Successful completion of Part II of the National Dental Board examination will be required for D.D.S. graduation.

## **COURSE WITHDRAWAL**

A request for or notice of withdrawal from a course must:

1. Be made in writing to the Office of Academic Affairs
2. Be accompanied by supporting reasons
3. Be specific as to the desired date of effect
4. Be specific as to re-registration for the course
5. Be approved in writing by the Office of Student Affairs.

Upon approval, the Office of Academic Affairs shall inform the registrar that withdrawal has been approved. The students record shall show W for an authorized withdrawal.

## **COLLEGE WITHDRAWAL**

A request for notice of withdrawal from the College of Dentistry must:

1. Be made in writing to the Office of Academic Affairs
2. Be specific as to the desired date of effect
3. Be accompanied by proof that all obligations to the University has been satisfied
4. Be approved in writing by the dean.

The Office of Academic Affairs shall inform the registrar that withdrawal has been approved. In the event of an authorized termination, the students record shall show W for registered courses at the time of withdrawal.

Any matriculated student who withdraws from the College of Dentistry may petition for readmission. It shall be the responsibility of the Academic Coordinating Committee to recommend to the dean the granting of readmission and the academic level of readmission.

## **ACCESS TO STUDENT RECORDS**

In accordance with federal law as established in 1974 by the Family Educational Rights and Privacy Act, the University of Nebraska Medical Center maintains the confidentiality of student records and allows students to inspect and review information in their educational records at the College of Dentistry. The UNMC policy statement concerning student records may be found in the current Student Handbook or in the Office of Student Services at UNMC.

## **DRESS AND GROOMING CODE**

Dress and grooming requirements apply to all student and faculty personnel connected with the College of Dentistry. Violations that result in unsanitary grooming or poor taste that is emotionally objectionable to patients will not be allowed.

**A. Dress.** Personal dress in lectures is at the discretion of the individual student. In clinics and laboratories, a neat, clean, approved dental gown must be worn at all times. All other clothes must be neat and clean.

**B. Clinical Attire and Grooming.** The College of Dentistry has a formal Clinical Attire Policy which is published in the Policies and Procedures Manual. All students, faculty and staff of the College must abide by this policy.

# CURRICULUM IN DENTISTRY

## First Year

### First Semester

			Hours
OB	505	Human Anatomy	3 CR
OB	519	General Histology & Embryology	3 CR
ARD	529	Dental Anatomy	2 CR
ARD	531	Dental Materials	4 CR
OB	535	Critical Thinking I	1 CR
OB	545	Biochemistry for Dental Students	<u>4 CR</u>
			17 Hrs

### Second Semester

OB	506	Head & Neck Anatomy	3 CR
OB	514	Fundamentals of Microbiology & Immunology	2 CR
OB	518	Human Physiology	5 CR
OB	522	Oral Histology & Embryology	2 CR
ARD	530	Occlusion	2 CR
ARD	532	Operative Dentistry I	4 CR
OB	539	General Pathology I	<u>2 CR</u>
			20 Hrs

### Summer Session

OB	525	Oral and Medical Microbiology	3 CR
PER	538	Theoretical Periodontology	2 CR
OB	540	General Pathology II	3 CR
DENT	571	Review of Biomedical Sciences	<u>0 CR</u>
			8 Hrs

## Second Year

### First Semester

			Hours
PER	553	Periodontal Therapy	2 CR
ARD	555	Operative Dentistry II	4 CR
OS	557	Medical Emergencies	1 CR
ARD	559	Physical Assessment	2 CR
OB	561	Introduction to Oral Radiology	1 CR
ARD	563	Removable Prosthodontics I	4 CR
DENT	571	Review of Biomedical Sciences	1 P/N
OB	581	Human Behavior Analysis	2 CR
ENDO	585	Biology of the Dental Pulp	1 CR
OS	597	Oral Surgery and Local Anesthesia	<u>1 CR</u>
			19 Hrs

### Second Semester

DENT	500	Clinical Dentistry I	2 P/N
ARD	556	Cariology	1 CR
OB	562	Radiographic Interpretation	1 CR
OB	566	Oral Pathology	3 CR
ARD	570	Removable Prosthodontics II	3 CR
ARD	572	Diagnosis and Treatment Planning	2 P/N
ARD	574	Fixed Prosthodontics I	4 CR
ORTH	576	Orthodontic Concepts I	1 CR
ENDO	586	Endodontic Therapy I	2 CR
PEDI	592	Dental Auxiliary Utilization (DAU)	1 P/N
DENT	594	Patient Management & Professionalism	1 P/N
PEDI	596	Pediatric Dentistry	<u>2 CR</u>
			23 Hrs

### Summer Session

DENT	550	Clinical Dentistry II	2 P/N
ARD	580	Fixed Prosthodontics II	1 CR
ORTH	588	Orthodontics Concepts II	1 CR
ORTH	590	Ortho Tech Lab	1 CR
ARD	593	TM Disorders/Orofacial Pain	1 CR
DENT	595	Patient Management & Professionalism	1 P/N
ARD	674	Clinical TMD (yearly)	<u>0 CR</u>
			7 Hrs

## Third Year

### First Semester

			<b>Hours</b>
OB	601	Problems in Patient Management	1 CR
OB	602	Clinical Dental Radiology (yearly)	0 CR
ARD	603	Clinical Diagnosis and Treatment Planning I	1 P/N
ENDO	605	Endodontic Therapy II	1 CR
PER	606	Periodontal Treatment I	1 CR
ENDO	607	Clinical Endodontics I (yearly)	0 CR
ARD	609	Basics of Dental Implantology	1 CR
ARD	618	Clinical Operative Dentistry I (yearly)	0 CR
OB	620	Student Scientific Program (yearly)	0 CR
ARD	621	Clinical Prosthodontics/Implant Dentistry I(a) (yearly)	1 P/N
OS	625	Oral Surgery Diagnosis & Treatment	2 CR
OS	627	Clinical Oral Surgery I (yearly)	0 P/N
PER	630	Clinical Periodontics I (yearly)	0 CR
ARD	634	Clinical Cariology I (yearly)	0 CR
ORTH	638	Clinical Orthodontics I (yearly)	0 CR
OB	639	General Pharmacology for Dental Students	3 CR
DENT	647	Patient Management & Professionalism (yearly)	0 CR
OB	648	Oral Medicine	1 CR
ARD	674	Clinical TMD (yearly)	<u>0 CR</u>
			12 Hrs

### Second Semester

OB	602	Clinical Dental Radiology (yearly)	1 CR
ARD	604	Clinical Diagnosis and Treatment Planning II	1 P/N
ENDO	607	Clinical Endodontics I (yearly)	1 P/N
OB	610	Practice Management	3 P/N
ARD	616	Advanced Topics in Operative Dentistry	1 CR
ARD	618	Clinical Operative Dentistry I (yearly)	4 CR
OB	620	Student Scientific Program (yearly)	1 P/N
ARD	622	Clinical Prosthodontics/Implant Dentistry I(b) (yearly)	3 CR
DENT	623	Professional Responsibility & Ethics	1 P/N
OS	627	Clinical Oral Surgery I (yearly)	1 P/N
PER	630	Clinical Periodontics I (yearly)	2 CR
ORTH	632	Orthodontic Concepts III	1 CR
ARD	634	Clinical Cariology I (yearly)	1 P/N
PEDI	636	Clinical Pediatric Dentistry I	1 P/N
ORTH	638	Clinical Orthodontics I (yearly)	0 CR
OS	640	Conscious Sedation & Pain Control	1 CR
DENT	647	Patient Management & Professionalism (yearly)	2 P/N
ARD	674	Clinical TMD (yearly)	<u>0 CR</u>
			25 Hrs

### Summer Session

DENT	600	Clinical Dentistry III	3 P/N
DENT	612	Dental Public Health	1 P/N
ARD	633	Advanced Topics in Prosthodontics	1 CR
ORTH	638	Clinical Orthodontics I (yearly)	1 P/N
DPM	644	Oral Health & Dentistry for the Older Adult	2 CR
DENT	650	Patient Management & Professionalism	1 P/N
PEDI	663	Clinical Pediatric Dentistry II	0 CR
ARD	674	Clinical TMD (yearly)	0 CR
OB	684	Extramural Programs	<u>1 P/N</u>
			10 Hrs

## Fourth Year

### First Semester

			Hours
OB	652	Clinical Dental Radiology (yearly)	0 CR
OB	653	Oral Pharmacology	1 CR
ARD	654	Clinical Diagnosis and Treatment Planning III (yearly)	0 CR
PER	655	Periodontal Treatment II	1 P/N
PEDI	663	Clinical Pediatric Dentistry II	1 P/N
ARD	664	Clinical Cariology II (yearly)	0 CR
ARD	671	Clinical Prosthodontics/Implant Dentistry II(a) (yearly)	1 P/N
ARD	674	Clinical TMD (yearly)	0 CR
ORTH	676	Clinical Orthodontics II (yearly)	0 CR
OB	687	Seminar in Practice Transition	1 P/N
OB	691	Clinical Oral Pathology	2 CR
DENT	694	Review of Clinical Sciences (yearly)	1 P/N
ARD	695	Clinical Operative Dentistry II	1 P/N
OS	695	Clinical Oral Surgery II (yearly)	1 P/N
ENDO	696	Clinical Endodontics II (yearly)	0 CR
PER	696	Clinical Periodontics II (yearly)	0 CR
DENT	697	Patient Management & Professionalism (yearly)	<u>2 P/N</u>
			12 Hrs

### Second Semester

			Hours
OB	652	Clinical Dental Radiology (yearly)	1 CR
ARD	654	Clinical Diagnosis and Treatment Planning III (yearly)	2 P/N
ARD	664	Clinical Cariology II (yearly)	1 P/N
ARD	672	Clinical Prosthodontics/Implant Dentistry II(b) (yearly)	5 CR
ARD	674	Clinical TMD (yearly)	1 P/N
ORTH	676	Clinical Orthodontics II (yearly)	1 P/N
DENT	694	Review of Clinical Science	0 P/N
OS	695	Clinical Oral Surgery II (yearly)	0 CR
ARD	696	Clinical Operative Dentistry III	3 CR
ENDO	696	Clinical Endodontics II (yearly)	1 CR
PER	696	Clinical Periodontics II (yearly)	1 CR
DENT	697	Patient Management & Professionalism (yearly)	<u>0 P/N</u>
			16 Hrs

### Elective Courses:

DENT	549	Freshman Research	1-3 P/N
DENT	552	Elective in Clinical Dentistry	1-3 P/N
DENT	599	Sophomore Research	1-3 P/N
ARD	619	IMPLANTS Limited to D-3 Students By Permission	2 CR
ARD	646	Advanced Topics Temporomandibular Disorders And Orofacial Pain	1 P/N
DENT	649	Junior Research	1-3 P/N
DENT	693	Biostatistics	3 CR
ARD	696	Optional Experience in Clinical Op Dent III Advanced Esthetic Bonded Restorations Contact Dr. Haisch	
DENT	698	Teaching Practicum (Junior & Senior)	1-3 P/N
DENT	699	Senior Research	1-3 P/N

## PROFESSIONAL COURSES OF INSTRUCTION

In the following departments, courses number 300-424 are given throughout the dental hygiene curriculum. Courses numbered 500-549 are given in the first dental year; 550-599 in the second dental year; 600-649 in the third dental year and 650-699 in the fourth dental year. Formal prerequisites (Prereq.) are listed after the course title and credit hours.

### ADULT RESTORATIVE DENTISTRY

(Sections of Dental Materials, Operative Dentistry, Prosthodontics, and Temporomandibular Disorders and Orofacial Pain and the area of Assessment and Treatment Planning.)

**321. Dental Anatomy (2 cr)**

A lecture-laboratory course studying the development, form, function and static relationships of teeth in the human dentition and the proper terminology needed to identify structures of the human dentition. Students also develop skill at working with spatial relationships by developing models of teeth to proper contours in wax replicas.

**326. Dental Materials (2 cr)**

This course is designed to provide foundational knowledge in basic and applied dental materials science. The didactic component introduces the student to the basic composition of dental materials, their mechanical and physical properties, and the manner in which material properties are affected by variations in manipulation. The laboratory component is designed to reinforce didactic concepts through the conduct of mechanical and physical property tests, and hands-on manipulation of selected dental materials.

**432. Geriatric and Special Patient Care (2 cr)**

An introductory course in the management of special needs and geriatric dental patients.

**529. Dental Anatomy (2 cr)**

A lecture-laboratory course studying the development, form, function and static relationships of teeth in the human dentition and the proper terminology needed to identify structures of the human dentition. Students also develop skill at working with spatial relationships by developing models of teeth to proper contours using hand-formed plastic materials and computer-aided-design/manufacture (CAD/CAM) replicas.

**530. Occlusion (2 cr) Prereq: ARD 529**

The primary goal is to relate the anatomical elements of the masticatory system in such a way as to adequately prepare students for dental procedures requiring the alteration or modification of this system. A more all-encompassing objective will be to incorporate anatomical elements into the essentials of how the maxillary and mandibular teeth articulate in function and parafunction. The clinical significance of occlusal variation and the clinical implications of occlusal alteration will be related to restorative dentistry treatments.

**531. Dental Materials (4 cr)**

An introduction to the science and practical usage of dental biomaterials. Emphasis is placed on the understanding of materials science principles and how they relate to the clinical handling of dental biomaterials. Laboratory sessions are included to introduce techniques in manipulation.

**532. Operative Dentistry I (4 cr) Prereq: ARD 529, 531**

A lecture-laboratory course covering the principles of conservative cavity preparations and restoration of the adult dentition using dental amalgam, composite resin, and glass ionomer cement.

**555. Operative Dentistry II (4 cr) Prereq: ARD 529, 530, 531, 532**

A lecture-laboratory course concerning advanced applications of direct restorations and the principles of tooth preparation for and fabrication of intracoronal and partial veneer indirect restorations.

**556. Cariology (1 cr)**

This course combines lecture/seminar online, CD-ROM, and laboratory aspects that present dental caries as an infectious and controllable disease. The relationship between basic science and clinical application will be a central focus in preparing the student to be able to develop patient-specific strategies for the management of dental caries.

**559. Physical Assessment (2 cr)**

Lectures and laboratory exercises will cover the following information: interviewing techniques and diagnostic processes; medical consultation techniques, evaluation of vital signs, ASA classifications, physical findings suggestive of systemic disease, and laboratory test results (blood, urine, etc.); cranial nerve, head/neck, and oral hard and soft tissue examinations; use of the Physician's Desk Reference; and the description and identification of common oral mucosal lesions.

**563. Removable Prosthodontics I (4 cr) Prereq: ARD 529, 530, 531, 532, 533**

This complete denture course is designed to prepare the sophomore dental student to successfully provide dental therapy for the completely edentulous patient. At the completion of the course the student will be thoroughly familiar with the techniques, materials, equipment, supplies, and biological considerations necessary to fabricate complete dentures.

**570. Removable Prosthodontics II (3 cr) Prereq: ARD 555, 563**

The study of the design, theory, and basic procedures in partial and complete denture construction. Diagnosis and treatment planning will be stressed through lectures, laboratory, and clinical demonstrations.

**572. Diagnosis & Treatment Planning (2 cr)**

The course provides students with the foundation knowledge to perform a dental clinical examination and oral diagnosis of a patient starting with the initial contact. It introduces students to basic treatment planning concepts including treatment options, treatment sequencing and case presentations.

**574. Fixed Prosthodontics I (4 cr) Prereq: ARD 555**

A lecture-laboratory course involving the diagnosis, treatment planning, and basic principles of tooth preparation and procedures for the complete restoration of single teeth with extracoronal restorations and the replacement of one or more teeth using fixed partial dentures. The indications and methods for restoration of endodontically treated teeth are also included. Single crowns, fixed partial dentures, provisional restorations, prefabricated and cast post and cores will be fabricated in the laboratory portion of the course.

**580. Fixed Prosthodontics II (1 cr) Prereq: ARD 574**

A lecture-laboratory course designed to present additional restorative techniques. Included will be preparations for resin-bonded fixed partial dentures, a review of conventional fixed partial dentures, provisional and other esthetic restorative techniques.

**593. Temporomandibular Disorders (TMD) (1 cr)**

Lectures and on-line references concerning diagnosis and treatment of temporomandibular disorders (TMD) and orofacial pain

**603. Clinical Diagnosis and Treatment Planning I (1 cr)**

This course emphasizes patient assessment and the diagnosis, planning and sequencing of comprehensive, problem-based dental care. It is designed to develop the student's clinical skills in adequately evaluating a general and oral health history and recognizing pathologic and potentially pathologic oral lesions.

**604. Clinical Diagnosis and Treatment Planning II (1 cr)**

This course emphasizes patient assessment and the diagnosis, planning and sequencing of comprehensive, problem-based dental care. It is designed to develop the student's clinical skills in adequately evaluating a general and oral health history and recognizing pathologic and potentially pathologic oral lesions.

**609. Basics of Dental Implantology (1 cr)**

This course is designed that students should be understanding the role of implant dentistry in all aspects of diagnosis and treatment planning, surgical and prosthodontic procedures and be able to evaluate and maintain the implants and prostheses with follow-up care and education.

**616. Advanced Topics in Operative Dentistry (1 cr) Prereq: ARD 555 and DENT 550**

This is a lecture course consisting, in part, of a review, reinforcement and update of clinical concepts, materials and techniques of Operative Dentistry. Factors in treatment planning, the relationship of operative treatment to various dental specialties, and the interactions, impact with various conditions/situations of patient care are presented and discussed.

**618. Clinical Operative Dentistry I (4 cr) Prereq: ARD 555, 570, 580, DENT 500, 550 and DENT 551**

Restoration of teeth to normal function by operative dentistry procedures.

- 621. Clinical Prosthodontics/Implant Dentistry I (a) 1 CR Prereq: ARD 574**  
 Diagnosis, treatment planning and the treatment of patients requiring the replacement or restoration of teeth using fixed, implant or removable prosthesis. Completion of this course signifies that the student has satisfied one or more evaluation criteria necessary to demonstrate competency in the area designated by the student outcome statement.
- 622 Clinical Prosthodontics/Implant Dentistry I (b) 3 CR Prereq: ARD 621**  
 Diagnosis, treatment planning and the treatment of patients requiring the replacement or restoration of teeth using fixed, implant or removable prosthesis. Completion of this course signifies that the student has satisfied one or more evaluation criteria necessary to demonstrate competency in the area designated by the student outcome statement.
- 633. Advanced Topics in Prosthodontics (1 cr) Prereq: ARD 555, 563, 570, 574, 580**  
 Lectures, case presentations, and class handouts will be given to emphasize clinical procedures in prosthodontics and to discuss available options in current clinical prosthodontic treatment. Further exposure to the principles and theory of more advanced treatment procedures in Fixed and Removable Prosthodontics will be given to supplement the basic concepts from ARD 574, 580, 563 and 570.
- 634 Clinical Cariology I (1 P/N) Prereq: ARD 556**  
 This clinical course provides the student with practical experience in the assessment and management of caries risk following established caries prevention strategies.
- 644. Oral Health and Dentistry for the Older Adult (2 cr)**  
 The course is a comprehensive review of topics related to dentistry and older adults. Namely: sociodemographics; defining the elderly; physiologic aging; aging theories; oral changes with age; interactions between systemic disease common to elderly and oral health; depression, cognitive impairment and other psychological problems related to aging; rational drug use; assessment & treatment planning for older patients; ethics in geriatric dentistry and dentistry in long-term care (LTC) facilities
- 654. Clinical Diagnosis and Treatment Planning III (2 cr) Prereq: ARD 572, 603, 604**  
 This course emphasizes patient assessment and the diagnosis, planning and sequencing of comprehensive, problem-based dental care. It is designed to develop the student's clinical skills in adequately evaluating a general and oral health history and recognizing pathologic and potentially pathologic oral lesions.
- 664 Clinical Cariology II (1 P/N) Prereq: ARD 634**  
 A continuation of ARD 634 Clinical Cariology I, this clinical course provides the student with practical experience in the diagnosis and management of caries risk following established caries prevention strategies.
- 671. Clinical Prosthodontics/Implant Dentistry II (a) (1 cr) Prereq: ARD 622**  
 Diagnosis, treatment planning and the treatment of patients requiring the replacement or restoration of teeth using fixed, implant or removable prosthesis. Completion of this course signifies that the student has satisfied one or more evaluation criteria necessary to demonstrate competency in the area designated by the student outcome statement.
- 672. Clinical Prosthodontics/Implant Dentistry II (b) (5 cr) Prereq: ARD 671**  
 Diagnosis, treatment planning and the treatment of patients requiring the replacement or restoration of teeth using fixed, implant or removable prosthesis. Completion of this course signifies that the student has satisfied one or more evaluation criteria necessary to demonstrate competency in the area designated by the student outcome statement.
- 674. Clinical Temporomandibular Disorders (1 cr) Prereq: ARD 593**  
 Clinical treatment of patients involving management of bruxism and temporomandibular disorders (TMD). In addition to providing intraoral orthotic therapy for patients demonstrating effects of bruxism, students may also have the experience of managing TMD through consultation with faculty as well as referral to the appropriate dental and/or medical discipline.
- 695. Clinical Operative Dentistry II (1 cr) Prereq: ARD 618**  
 Continuation of ARD 618.
- 696. Clinical Operative Dentistry III (3 cr) Prereq: ARD 695, DENT 695**  
 Continuation of ARD 695.

## ENDODONTICS

**585. The Biology of the Dental Pulp (1 cr) Prereq: ARD 529**

This course reviews the embryologic development of the tooth and related structures. Developmental anomalies and their clinical endodontic significance are discussed. In addition, this course provides an introduction to the histology, physiology, and pathology of the dental pulp. Methods for diagnosing pulpal and periapical pathology are presented including the medical and dental history, the clinical examination, the clinical testing procedures, and the radiographic examination.

**586. Endodontic Therapy 1 (2 cr) Prereq: ENDO 585**

Treatment procedures for diseases arising from the pulp and periradicular tissues are presented. Treatment planning and the sequencing of therapeutic measures are also presented. In addition, this course includes an introduction to the conventional endodontic instrumentation and obturation techniques. Laboratory sessions require the student to perform access openings and conventional endodontic procedures on each tooth group in the adult dentition.

**605. Endodontic Therapy II (1 cr) Prereq: ENDO 586**

Advanced diagnostic and treatment procedures for pulpal and periradicular disease are presented. These include treatment of endodontic emergencies, combined endodontic periodontic lesion, the cracked tooth and vertical root fractures, and resorptive lesions. In addition, this course covers endodontic surgical techniques, the management of traumatic injuries to the permanent dentition, and bleaching techniques designed for vital and nonvital teeth.

**607. Clinical Endodontics 1 (1 cr)**

Students gain experience in the diagnosis and treatment of adult patients with pulpal and periradicular disease. During the course of study the student will perform conventional endodontic treatment procedures and manage patients with pain of pulpal origin. The student will also treat patients presenting with periradicular disease and orofacial odontogenic infections secondary to pulpal necroses.

**696. Clinical Endodontics II (1 cr) Prereq: ENDO 605, 607**

This course provides basic endodontic experiences which will be applicable to the general practice of dentistry and builds on the clinical experiences obtained in ENDO 607.

## ORAL BIOLOGY

### 304. Oral Radiology for Dental Hygiene (3 cr)

This course consists of a study of intraoral radiographic techniques and radiation safety practices. It will also provide the information in radiation physics and biology necessary for safe, effective exposure and processing of radiographs/digital images in dental practice.

### 315. Osteology of the Skull (1 cr)

A study of the osteology of the skull as an introduction to the anatomy of the head and neck.

### 316. Head and Neck Anatomy (2 cr) Prereq: OB 315 or Permission of Course Director

A systematic study of the structures of the head and neck.

### 317. Special Topics in Oral Biology (2 cr)

A didactic course with selected topics in oral biology, including aspects of oral biochemistry, physiology, pharmacology and microbiology followed by an overview of gross anatomy topics.

### 319. General/Oral Histology (2 cr)

An introductory course in general and oral histology describing the morphology of cells, tissues and selected organ systems. A brief description of the embryology of the head and neck is also included.

### 325. Introduction to Immunology (1 cr)

A brief, general course on the immune system and how it relates to health and disease.

### 344. Radiographic Interpretation for Dental Hygiene (1 CR)

This course consists of normal and abnormal findings on radiographs. Description of radiographic findings will be covered at the beginning. Topics covered include periapical findings, odontogenic cysts and tumors, and malignancies.

### 366. Integrated General/Oral Pathology for the Dental Hygienist

Fundamental principles of the etiology, clinical features, histopathology, treatment and prognosis of general pathology disease processes, oral pathologies and their associations.

### 401. Introduction to Pharmacology (2 cr)

A study of the mechanism of action, therapeutic indications and side effects of drugs used in human therapeutics. Those agents most commonly used in dentistry will be emphasized.

### 415. Clinical Dental Radiology (1 cr)

This course is designed to assess the student's competency in dental radiographic technique, quality evaluation and recognition of normal and abnormal anatomy. The course also serves to provide feedback and/or remedial instruction to help the student master and improve their skills.

### 471. A Review of Biomedical/Dental Sciences (1 cr)

A brief review of the biomedical and dental sciences to assist senior dental hygiene students in studying for the National Board Dental Hygiene Examination.

### 491. Clinical Oral Pathology (2 cr) Prereq: OB 366 or Permission of Course Director

Presentation by individual case study of common clinical, radiographic and histopathologic material. Students learn to recognize, manage and develop a useful differential diagnosis for the lesions through classroom exercises.

### 505. Human Anatomy (3 cr)

A combined regional and systemic approach is adopted for a thorough study of the gross structures of the upper extremity, thorax, and abdomen. The lower extremity and pelvis are minimally studied. The last two weeks of the semester is devoted to introduction of osteology.

### 506. Head and Neck Anatomy (3 cr) Prereq: OB 505 or Permission of Course Director

Human Anatomy 505 continued. Thorough study of head and neck regions including an introduction to neuroanatomy.

### 514. Fundamentals of Microbiology and Immunology (2 cr)

An introduction to the structure, classification, genetics, growth, nutrition, and staining of microorganisms,

followed by an introduction to the innate and acquired immune system defenses against microbial infection.

**518. Human Physiology (5 cr)**

A study of the physiology of cells and organ systems. Provides an in-depth survey of cell membrane, neural, respiratory, cardiovascular, renal, gastrointestinal and endocrine physiology. Topics are presented to provide a basis for understanding normal and abnormal function in the human, with an emphasis on the oral cavity.

**519. General Histology and Embryology (3 cr)**

A lecture-laboratory course emphasizing the identification and functions of cells, tissues and organ systems. Development of the embryonic germ layers and their derivatives is also discussed.

**522. Oral Histology and Embryology (2 cr) Prereq: OB 519 or Permission of Course Director**

Lectures and labs relating to the microscopic anatomy of the oral tissues, teeth, and glands. The development of the head and neck is included.

**525. Oral & Medical Microbiology (3 cr)**

An introduction to host-parasite interrelationships with emphasis on oral and systemic infectious diseases and the causative microorganisms, pathogenesis, immunity, treatment, epidemiology and control, and the application of sterilization, disinfection and antimicrobial chemotherapy in dentistry.

**535. Critical Thinking I (1 cr)**

This is an online course that provides information and experiences for the development of the foundational knowledge and skills that are necessary for critical and integrative thinking. The course provides an orientation to the D1 biomedical science curriculum, a brief discussion of profession conduct and academic integrity, an introduction to medical terminology and a sequential series of exercises in assessing and critically appraising biomedical information to support clinical problem solving and evidence-based practice.

**539. General Pathology I (2 cr)**

A study of the basic pathologic processes of inflammation, genetic diseases, disorders of immunity and disturbances in cell growth and neoplasia.

**540. General Pathology II (3 cr) Prereq: OB 539 or Permission of Course Director**

The course includes the study of significant diseases and tumors of the various organ systems. Special emphasis is placed on oral manifestations and implications of dental treatment.

**545. Biochemistry for Dental Students (4 cr)**

An introductory course in biochemistry with a heavy emphasis on medical biochemistry. The practical application of biochemical principles to dental science is described. The relevance of biochemistry principles to other disciplines in the dental curriculum will also be described.

**561. Introduction to Oral Radiology (1 cr)**

This course consists of a study of intraoral radiographic techniques and radiation safety practices. It will also provide the dental student the information in radiation physics and biology necessary for safe, effective exposure and processing of radiographic/digital images in dental practice.

**562. Radiographic Interpretation (1 cr)**

This course consists of normal and abnormal findings on radiographs. Description of radiographic findings will be covered at the beginning. Topics covered for the dental student included periodontal bone loss, periapical findings, odontogenic cysts and tumors, and malignancies.

**566. Oral Pathology (3 cr) Prereq: OB 540 or Permission of Course Director**

Fundamental principles of the etiology, clinical features, histopathology, treatment and prognosis of principal oral lesions.

**581. Human Behavior Analysis (2 cr)**

The purpose of this course is to explore the dynamics of human behavior through understanding and applying the patient management model. This model incorporates concepts, principles and skills from the disciplines of dentistry, communication, sociology and psychology.

**601. Problems in Patient Management (1 cr)**

The central goal is to provide students with knowledge about causes, classifications and oral manifestations of

the more common handicapping conditions that affect handicapped children and adults.

**602. Clinical Dental Radiology (1 cr)**

This course is designed to assess the D-3 students' competence in dental radiographic technique and interpretation of dental radiographs. The course also serves to provide feedback and/or remedial instruction to help students improve their technique and interpretation.

**610. Practice Management (3 cr)**

Practice Management emphasizes business management. Business management includes issues such as: deciding about dental insurance participation; understanding financial statements; understanding legal aspects of dental practice; evaluating associateship opportunities; valuing practices; etc.

**620. Student Scientific Program (1 cr)**

Students are given background and information on how to conduct research. The course covers the scientific method, internal and external research variables, evaluation of the literature, research ethics, institutional and federal regulations governing the conduct of research and how to present the results of the research. A table clinic is developed by each student for presentation at the annual Student Scientific Program held during Professionals' Day.

**639. General Pharmacology for Dental Students (3 cr)**

A didactic study of the general principles underlying the mechanisms of action, clinical uses and adverse reactions of drugs used in the diagnosis, treatment and prevention of human disease. An introduction to prescription writing is also included. All major drug classifications are included with emphasis on drugs of special interest in dentistry.

**648. Oral Medicine (1 cr)**

Discussion of oral manifestations of systemic disease and medical conditions with emphasis on special management and treatment delivery considerations for the dental patient.

**652. Clinical Dental Radiology (1 cr)**

This course is designed to assess the student's competency in dental radiographic technique and interpretation. The course also serves to provide feedback and/or remedial instruction to help the student improve their skills.

**653. Oral Pharmacology (1 cr) Prereq: OB 639 or Permission of Course Director**

A discussion of the clinical pharmacology of medicinal agents commonly used in dentistry including a practicum on prescription writing.

**684. Extramural Programs (1 cr)**

Dental students provide clinical treatment, dental screenings at one or more of several sites located throughout the state and region.

**687. Seminar in Practice Management (1 cr)**

This course is designed to provide instruction needed for students entering private practice immediately upon or within a few years after graduation, particularly students who will start, buy or associate in a private practice. These areas receive particular focus: business plans, ownership issues, such as financing a practice, business entities and systems, and personal/business insurance needs.

**691. Clinical Oral Pathology (2 cr) Prereq: OB 566 or Permission of Course Director**

Presentation by individual case study of common and somewhat unusual clinical, radiographic and, histopathologic material. Students learn to recognize, manage and develop a useful differential diagnosis for the lesions through classroom exercises.

## ORAL SURGERY

### 557. Medical Emergencies (1 cr)

This course teaches the concepts and techniques necessary for preventing medical emergencies from occurring in the dental office. For those unpreventable cases, we review how to prepare for and treat the common emergencies that may occur. Legal implications of emergencies are also discussed.

### 597 Oral Surgery and Local Anesthesia (1 cr)

The basic physiology and pharmacology of local anesthesia is presented along with instruction for administration and application. The basic armamentarium for oral surgery and the rudiments of exodontia are presented.

### 625. Oral Surgery Diagnosis and Treatment (2 cr)

The didactic foundations for contemporary management of the oral surgery patient are presented in this two credit course. Topics include exodontia, surgical management of oral lesions, odontogenic infection, implantology and maxillofacial trauma.

### 627. Clinical Oral Surgery I (1 cr)

This course allows students to obtain clinical skills in the area of oral and maxillofacial surgery. Once completed, students should be able to independently perform common procedures in general practice.

### 640. Conscious Sedation & Pain Control (1 cr)

This course provides an overview of sedation and pain control relative to the practice of dentistry. The course introduces students to oral sedation, nitrous oxide sedation, intramuscular sedation, intravenous sedation and general anesthesia.

### 695. Clinical Oral Surgery II (1 cr) Prereq: Senior Status

This course builds upon those skills learned in OS 627. In addition, the oral surgery and anesthesia competency exam must be successfully completed during this class.

## ORTHODONTICS

### 576. Orthodontic Concepts I (1 cr)

Introduction to orthodontics emphasizing basic concepts of interest to all disciplines of dentistry: The classification of malocclusions, growth and development of the head and face, the eruption of the primary and permanent teeth, development of occlusion and the etiology of orthodontic problems.

### 588. Orthodontic Concepts II (1 cr)

The intent of this didactic and laboratory course is to gain the knowledge and skills required to formulate an orthodontic diagnosis and specific problem list. Important information about the orthodontic patient comes from three main sources: the medical and dental history and the patient's response to questions, the clinical exam of the patient, and the analysis of diagnostic records, including study models, radiographs, and photographs. The use of these sources and the application of various analyses will be the subject of this course and will serve as preparation for Clinical Orthodontics I, II (#638, #676) and Orthodontic Concepts III.

### 590. Orthodontic Laboratory Technology (1 cr)

Manipulation of various types of orthodontic materials and the clinical fabrication of fixed and removable orthodontic appliances. Students taking this course will acquire the ability to use instruments and materials in the construction of orthodontic appliances.

### 632. Orthodontic Concepts III (1 cr)

This course explores the problems of the primary, mixed, early permanent and the adult dentition in order to distinguish between moderate and severe problems. It introduces the physiology involved in tooth movement and the amount of force that is used for different types of tooth movements. It also covers the advantages and limitations of removable and fixed appliances and how to choose which to use in correcting the patient's problem.

### 638. Clinical Orthodontics I (1 cr)

In Clinical Orthodontics I, the student examines potential orthodontic patients in consultation with orthodontic

residents and clinical faculty. Clinical examination and records will be used to differentiate between simple and complex problems and as aids to know which cases to treat and which cases to refer.

**676. Clinical Orthodontics II (1 cr)**

This is a continuation of Clinical Orthodontics I, ORT 638. In Clinical Orthodontics II, the student examines potential orthodontic patients in consultation with orthodontic residents and clinical faculty. Clinical examination and records will be used to differentiate between simple and complex problems and as aids to know which cases to treat and which cases to refer.

## **PEDIATRIC DENTISTRY**

**592. Dental Auxiliary Utilization (1 cr)**

This course provides orientation and instruction in the team approach to dental practice. Chairside assisting techniques, instrument exchange, and four-handed dentistry skills are demonstrated and practiced. The student is videotaped as he/she works with the dental assistant.

**596. Pediatric Dentistry (2 cr)**

A comprehensive presentation concerned with the delivery of oral health care to children, utilizing a case presentation and problem-solving approach. The student will gain the skills necessary to evaluate a problem and develop a plan of treatment for their child and adolescent patients.

**636. Clinical Pediatric Dentistry I (1 cr)**

Students complete radiographic and oral examination and diagnosis for each child and plan treatments, after which all operative and surgical procedures are carried to completion by the student. The dental student is instructed in the team approach to restorative dentistry by utilizing the services of the chairside assistant. Parents are also informed about other facts concerning the child's dental health.

**663. Clinical Pediatric Dentistry II (1 cr)**

Clinical Pediatric Dentistry 636 continued. More challenging cases are treated when available. Included are a three week rotation in pediatric dentistry and a one week hospital rotation through the Medical Center dental specialty clinics.

## **PERIODONTICS**

**331. Theoretical Periodontology (2 cr)**

This course reviews the histology of the normal periodontium and presents the etiology and pathogenesis of periodontal diseases. Microbiologic, immunologic, histologic and clinical features of periodontal diseases are emphasized. Modifying factors such as nutritional, endocrinologic and occlusal factors are also discussed.

**434. Periodontal Treatment (1 cr)**

This course provides an overview of periodontal surgical therapy from the standpoints of: 1) assessing need; 2) general surgical principles; 3) postoperative care; 4) flap design and suturing; and 5) objectives and methods for individual techniques, including soft tissue resection, flap curettage, osseous recontouring, crown lengthening, osseous regeneration, mucogingival surgical and plastic procedures and preprosthetic surgery. Periodontal maintenance therapy is reviewed.

**538. Theoretical Periodontology (2 cr)**

This course reviews the histology of the normal periodontium and presents the etiology and pathogenesis of periodontal diseases. Microbiologic, immunologic, histologic and clinical features of periodontal diseases are emphasized. Modifying factors such as nutritional, endocrinologic, and occlusal factors are also discussed.

**553. Periodontal Therapy (2 cr)**

A preclinical course dealing with clinical aspects of periodontal diseases. There is an in-depth investigation and review of patient management, diagnosis, treatment planning, and non-surgical therapy. This course applies information from Theoretical Periodontology (538) to clinical situations and prepares the student for the clinical practice of periodontics.

**606. Periodontal Treatment I (1 cr)**

This course provides an overview of periodontal surgical therapy from the standpoints of: 1) assessing need; 2) general surgical principles; 3) postoperative care; 4) flap design and suturing; and 5) objectives and methods for individual techniques, including soft tissue resection, flap curettage, osseous recontouring, crown lengthening, osseous regeneration, mucogingival surgical and plastic procedures and preprosthetic surgery. Periodontal maintenance therapy is reviewed.

**630. Clinical Periodontics I (2 cr)**

Clinical management of periodontal disease through examination, diagnosis, treatment planning, patient education, motivation, nonsurgical therapies, and evaluation of the progress of therapy.

**655. Periodontal Treatment II (1 cr)**

This course includes an in-depth review of selected clinical topics (i.e., chemotherapeutics, maintenance therapy in practice, differential diagnoses, periodontal surgery, mucogingival surgery for esthetics, peri-implant considerations), appropriate for senior dental students.

**696. Clinical Periodontics II (1 cr) Prereq: PER 630**

Continuation of 630 with greater emphasis on independent treatment management.

## **DENTISTRY - NONDEPARTMENTAL**

**549. Freshman Research (1-3 cr)**

Optional individual graduate research is offered for those students whose research proposals are approved by the Faculty Research Committee. Credit hour assignment is determined by the committee and is based on the complexity of the research.

**599. Sophomore Research (1-3 cr)**

**649. Junior Research (1-3 cr)**

**698. Teaching Practicum (1-3 cr)**

An elective providing supervised teaching experiences for dental students who have expressed an interest in dental education as a career goal.

**699. Senior Research (1-3 cr)**

## **DENTISTRY - INTERDEPARTMENTAL CLINICAL DENTISTRY**

**500. Clinical Dentistry I (2 cr)**

An introductory course providing patient treatment services in clinical dentistry for second year (D-2) dental students. Prerequisite for the course is satisfactory completion of preclinical courses.

**550. Clinical Dentistry II (2 cr)**

An introductory course providing patient treatment services in clinical dentistry for second year (D-2) dental students. Prerequisite for the course is satisfactory completion of preclinical courses.

**571. Review of Biomedical Sciences (1 cr)**

A brief review to assist dental students in studying for the National Board Examination Part I.

**595. Patient Management & Professionalism (1 cr)**

Students are given the opportunity to learn, practice and demonstrate competency in several areas of patient care and professionalism in clinical practice.

**600. Clinical Dentistry III (3 cr)**

A sequel to Clinical Dentistry II for the purpose of providing patient dental services. Instruction in all phases of clinical dentistry as assigned during the summer session. Junior (D-3) students having completed previous semester requirements are permitted to attend. Each specific discipline sets the necessary standards for evaluation of services provided.

**612. Dental Public Health (1 cr)**

This course is devoted to understanding the basic concepts of dental public health, including epidemiology, needs assessment, statistics, delivery systems, utilization, health economics, disease prevention and social issues.

**623. Professional Responsibility & Ethics (1 cr) Prereq: DENT 595**

This course investigates the characteristics of a profession and a professional person, as well as the ethical responsibilities of a dentist. Professionalism, the ADA Code of Ethics, and legal and ethical interactions are discussed. Students present various ethical dilemmas to the class for thought provocation and discussion.

**647. Patient Management & Professionalism (2 cr) Prereq: DENT 595**

Students are given the opportunity to learn, practice and demonstrate competency in several areas of patient care and professionalism in clinical practice.

**650. Patient Management & Professionalism (2 cr) Prereq: DENT 647**

Students are given the opportunity to learn, practice and demonstrate competency in several areas of patient care and professionalism in clinical practice.

**694. Review of Clinical Sciences (1 cr)**

A brief review of clinical sciences to assist D-4 students in preparing for Part II of National Boards.

**697. Patient Management & Professionalism (2 cr) Prereq: DENT 650**

Students are given the opportunity to learn, practice and demonstrate competency in several areas of patient care and professionalism in clinical practice.

## **PROGRAM IN DENTAL HYGIENE**

Dental hygiene, a preventive profession, is composed of licensed dental hygienists who are an integral part of the dental health team. They provide educational, clinical and therapeutic services to those seeking dental care.

The dental hygiene curriculum at the University of Nebraska Medical Center in Lincoln is fully approved by the Commission on Dental Accreditation and its graduates are eligible for examination and licensure in all states.

The curriculum is organized into a four-year program leading to the Bachelor of Science degree in Dental Hygiene. Preparation for admission to the Dental Hygiene Program consists of approximately two academic years of study and this course work may be completed at any accredited college. While taking prerequisite courses, it would be advisable to contact the Dental Hygiene Program (UNMC College of Dentistry, 40th & Holdrege Streets, Lincoln, Nebraska 68583-0753, Phone: 472-1433) for assistance in selecting courses that will fulfill requirements for the dental hygiene program as well as your respective college. After selection into the dental hygiene program, the next two academic years and one summer session are spent at the College of Dentistry in Lincoln, Nebraska or the West Division in Gering, Nebraska.

### **PREDENTAL HYGIENE REQUIREMENTS**

#### **High School:**

Preparation for the study of dental hygiene begins in high school. The prospective dental hygiene student should take the following subjects:

English	3 years
Mathematics	
Algebra	2 years
Geometry	1 year
Biological Sciences (Biology)	1 year
Chemistry	1 year
Foreign Language (suggested but not required)	2 years

## College:

The pre-dental hygiene courses fulfill general requirements and provide the student with a core of knowledge.

Communication (English Composition)	6 hours
Biology	4 hours
Microbiology	4 hours
Human Anatomy or Anatomy & Physiology I	4 hours
Human Physiology or Anatomy & Physiology II	4 hours
General Chemistry	8 hours
Introductory Sociology	3 hours
Introductory Psychology	3-4 hours
Communication (Speech/must give speeches)	3 hours
Humanities/Arts	6 hours
Social & Behavioral Sciences/Human Behavior, Culture, and Social Organization	3 hours
Nutrition	3 hours
12-hour series	12 hours

Six credit hours must be completed in the Humanities & Arts (English literature, philosophy, music history, classics, art history, theater arts, drawing), and three hours in Social & Behavioral Sciences/Human Behavior, Culture and Social Organization (psychology, sociology, anthropology, economics, political science, geography). A twelve-hour series (a 12 hour minor in one academic area) must be completed in a specific area of study. The courses taken in the 12 hour series must have the same course prefix for all courses being considered. The Dental Hygiene Program advisor should be consulted for specific details.

The following is an example of course sequencing.

### First Year

First Semester	Hours	Second Semester	Hours
English Composition .....	3	English Composition .....	3
General Biology/Lab.....	4	Biology of Microorganisms/Lab.....	4
Speech.....	3	Introductory to Sociology .....	3
Introductory to Psychology.....	4	Social & Behavioral Sciences .....	3
	14	First of 12 Hour Series.....	3
			16

### Second Year

First Semester	Hours	Second Semester	Hours
General Chemistry I/Lab .....	4	General Chemistry II/Lab.....	4
Humanities/Arts .....	3	Nutrition .....	3
Humanities/Arts .....	3	Third of 12 Hour Series .....	3
Second of 12 Hour Series .....	3	Fourth of 12 Hour Series .....	3
Anatomy/ Lab or Human Anatomy & Physiology I/Lab .....	4	Physiology/Lab or Human Anatomy & Physiology II/Lab.....	4
	17		17

## Transfer Credit

All official transcripts from postsecondary institutions will be examined, and credit will be awarded according to UNMC policy. Usually, credit from any accredited institution of higher learning is accepted for transfer if successfully completed with a course grade of C or above.

For two and four-year institutions, transfer credit will be determined by the standards set forth in the "Transfer Credit Practices of Designated Educational Institutions" published by the American Association of Collegiate Registrars and Admissions Offices. Transfer credit will not be awarded for D grades from other institutions. This policy does not apply to transfer of grades from within the University system (i.e., UNL to UNMC).

## Admission Guidelines

Students who meet the following requirements may be considered for admission.

1. Minimum total grade point average of 2.5.
2. Official high school transcript.
3. ACT or SAT scores if available.
4. Current College transcript from all institutions attended.
5. Submit application materials by February 1st. Applications received after this date will be considered on an individual basis.

A personal interview may be requested with members of the Dental Hygiene Admissions Committee. The University of Nebraska Medical Center is an equal opportunity institution and all qualified minorities are urged to apply.

## Application Procedures

Students who have completed pre-dental hygiene study and are ready to apply for admission should do so on the College of Dentistry's website. Students are urged to begin application procedures as soon as the online application is available for the current application process. The College of Dentistry charges a \$50 application fee. The department must receive all of the following by the February 1<sup>st</sup> deadline:

- the online application form & application fee (paid online)
- a complete application document packet
- including official college and high school transcripts (received in sealed envelopes from the institution's registrar); ACT or SAT scores; application essay; and letters of recommendation(s). Letters of recommendation are not required but will be considered if submitted in sealed envelope from recommender and included in the dental hygiene application document packet.

Contact the department for further information at (402) 472-1433.

Upon notice of acceptance for admission to the dental hygiene program, a letter of intent to enroll and a deposit of \$200.00 are required. The full amount of the deposit applies toward payment of tuition and fees when the student enrolls. All applicants are notified of their acceptance or rejection by the College of Dentistry Admissions Committee.

Applicants will be accepted who present evidence of intellectual promise and strong personal qualifications, including good moral character and the desire to serve the public. Consideration is given to personal maturity and professional motivation. Students selected must be committed to scholarly pursuits and have career goals compatible with the philosophy of the baccalaureate program.

## Class Size

The Department Of Dental Hygiene accepts twenty-four students each year. Twenty students will complete the program at the College of Dentistry in Lincoln, Nebraska and four students at the West Division campus in Gering, Nebraska.

## Alternative Curriculum Options

Alternative curriculum options and sequencing of courses is available which will allow the student to obtain a dental hygiene certificate in three years. The baccalaureate degree will be awarded after completing the additional courses. For licensed dental hygienists with a certificate or an associate degree, the University of Nebraska Medical Center College of Dentistry offers a degree completion program leading to a Bachelor of Science degree in Dental Hygiene. For more detailed information on these two programs and a counseling appointment, contact the Dental Hygiene Department Chair at (402) 472-1433.

# FINANCIAL INFORMATION

## Tuition and Fees

Tuition and fees are set by the University of Nebraska Board of Regents and may be changed at any time. The following quotations are for academic year 2010-2011 and are offered as guidelines only.

Dental Hygiene – Resident	\$ 198.25
Dental Hygiene - Nonresident	\$ 588.25
Dental Hygiene - Books & Instruments	\$1770.00/semester
Equipment Replacement Fee	\$ 300.00/semester
Library Fee	\$ 3.00/credit hour
Dental Hygiene - Student Fees	\$ 462.90/semester 206.79*/summer

\*The fees listed are those charged for 2010 Summer Session and are subject to change for the 2011 year.

\*\*Library fee based on hours registered for and subject to change.

See the Scholarships and Financial Aid section for applicable information about scholarships, financial aid, and establishing residency for tuition purposes.

### **Dental Hygiene Student Book, Equipment & Instrument Policy** **Class of 2006 and Subsequent Years**

#### **Books & Instruments:**

All books issued to students by the College are issued on a lease purchase arrangement until the student graduates from the College. Upon completion of the dental hygiene program and the conferral of the B.S. degree, all issued books become the property of the student. Students will pick up and pay for their books through dental stores each semester.

Some equipment and dental instruments are leased to and checked out to students for specific purposes and are to be returned in satisfactory condition. Students are responsible for the cost of lost equipment. This includes any item issued to them for clinic, laboratories or classrooms.

Instruments are owned by the dental hygiene students. They receive their entire instrument issue the first semester, junior year. The cost for instruments is assessed over four semesters and may vary from Junior year to Senior year.

Students pay a service fee which provides for printed, photocopied or electronic course materials, basic and pre-clinical laboratory supplies, use and laundering of COD clinic gowns, pre-clinical and clinical dispensing services and other items or services necessary for student participation in the academic programs at the College.

#### **Withdrawal of Students:**

If a student leaves the program before graduation, all equipment and instruments must be returned before the College will authorize any University tuition and general fee refunds, release of transcripts and letters of recommendation or any other information as determined by the College.

## UNIVERSITY HOUSING

The Board of Regents determines the rates for room and board in the student residence halls. Current information is available from the Division of University Housing, 1100 Seaton Hall, University of Nebraska-Lincoln, Box 68588-0622, Lincoln, Nebraska 68588-0622, (402) 472-3561.

# CURRICULUM IN DENTAL HYGIENE

## FIRST SEMESTER JUNIOR YEAR

- DH 301 Preclinic Theory (2 cr)**  
An introduction to the dental hygiene profession, providing an overview of dental terminology; sterilization, disinfection and prevention of disease transmission; tissues of the periodontium (oral mucous membrane, gingiva, periodontal ligament, cementum and alveolar bone); hard and soft dental deposits, including plaque, stain, and calculus; plaque indices; the etiology of oral diseases; preventive dental care; and clinical procedures and sequencing (CIS).
- DH 307 Medical Emergencies (1 cr)**  
This course provides information regarding the prevention, recognition, and management of medical emergencies which can and do occur in the dental office setting.
- DH 309 Preclinical Techniques (4 cr)**  
The basic theories and techniques of clinical dental hygiene. The lecture includes patient assessment, instrumentation and documentation of services provided. The clinic/lab practice on student partners provides an opportunity to gain proficiency and prepare for patient appointments.
- OB 315 Osteology of the Skull (1 cr)**  
A study of the osteology of the skull as an introduction to the anatomy of the head and neck.
- OB 317 Special Topics in Oral Biology (2 cr)**  
A didactic course with selected topics in oral biology, including aspects of oral biochemistry, physiology, pharmacology and microbiology followed by an overview of gross anatomy topics.
- OB 319 General/Oral Histology (2 cr)**  
An introductory course in general and oral histology describing the morphology of cells, tissues and selected organ systems. A brief description of the embryology of the head and neck is also included.
- ARD 321 Dental Anatomy (2 cr)**  
A lecture-laboratory course studying the development, form, function and static relationships of teeth in the human dentition and the proper terminology needed to identify structures of the human dentition. Students also develop skill at working with spatial relationships by developing models of teeth to proper contours in wax replicas.

## SECOND SEMESTER JUNIOR YEAR

- OB 304 Oral Radiology for Dental Hygiene (3 cr)**  
This course consists of a study of intraoral radiographic techniques and radiation safety practices. It will also provide the information in radiation physics and biology necessary for safe, effective exposure and processing of radiographs/digital images in dental practice.
- DH 310 Clinical Dental Hygiene I (3 cr)**  
A clinical course where the students apply the skills learned in DH 301, DH 307, DH 309 and the new skills acquired in DH 320 and ARD 326.
- OB 316 Head and Neck Anatomy (2 cr)**  
A systematic study of the structures of the head and neck.
- DH 320 Clinical Techniques I (2 cr)**  
Clinical Techniques I is a theory and laboratory techniques course emphasizing preventive and maintenance procedures. Lecture and laboratory activities include the care of prosthetic appliances, fluoride application, instrument sharpening, occlusal sealants, oral physiotherapy aids and techniques, instrumentation, dental hygiene care plan/appointment plan, bleaching cast preparation, DHDx, air-polishing, caries risk assessment, caries detection, and amalgam polishing/margination.
- OB 325 Introduction to Immunology (1 cr)**

A brief, general course on the immune system and how it relates to health and disease.

**ARD 326 Dental Materials (2 cr)**

This course is designed to provide foundational knowledge in basic and applied dental materials science. The didactic component introduces the student to the basic composition of dental materials, their mechanical and physical properties, and the manner in which material properties are affected by variations in manipulation. The laboratory component is designed to reinforce didactic concepts through the conduct of mechanical and physical property tests, and hands-on manipulation of selected dental materials.

**OB 366 Integrated General/Oral Pathology for the Dental Hygienist (3 cr)**

Fundamental principles of the etiology, clinical features, histopathology, treatment and prognosis of principal oral lesions and their relationship with the general pathology disease processes.

**SUMMER SESSION JUNIOR YEAR**

**DH 305 Research Methodology (1 cr)**

This course is designed for basic instruction in research methods and statistics. Emphasis is placed on critical review and evaluation of the scientific literature and research methodologies. The student will prepare a literature review or research project on a research question of interest. The literature review or research project will provide the basis for a required poster presentation. The course will also include widely used methods for statistical analysis of experimental and observational data with an orientation toward inference from dental research.

**DH 328 Clinical Dental Hygiene II (1 cr)**

DH 328 is a clinical course where the student refines skills learned in DH 301, DH 307, DH 309, DH 310, DH 320, ARD 326 and applies the new skills learned in DH 330.

**DH 330 Clinical Techniques II (2 cr)**

This course will provide the theory and technique of advanced clinical skills required in the assessment, planning, and treatment of the periodontal patient, including periodontal assessment and charting, root morphology, root planing, and periodontal debridement with modified ultrasonic instruments.

**PER 331 Theoretical Periodontology (2 cr)**

The course reviews the histology of the normal periodontium and presents the etiology and pathogenesis of periodontal diseases. Microbiologic, immunologic, histologic and clinical features of periodontal diseases are emphasized. Modifying factors such as nutritional, endocrinologic and occlusal factors are also discussed.

**OB 344 Radiographic Interpretation for Dental Hygiene (1 cr)**

This course consists of normal and abnormal findings on radiographs. Description of radiographic findings will be covered at the beginning. Topics covered include periapical findings, odontogenic cysts and tumors, and malignancies.

**FIRST SEMESTER SENIOR YEAR**

**OB 401 Introduction to Pharmacology (2 cr)**

A study of the mechanism of action, therapeutic indications, and side effects of drugs used in human therapeutics. Those agents most commonly used in dentistry will be emphasized.

**DH 406 Community Dental Health (0 cr)**

A year long survey of the theory and practice of community health, particularly as it applies to dental health; methods used to determine dental health status in communities, procedures for improving the dental health of the public, and procedures in health education.

**DH 412 Local Anesthesia/Nitrous Oxide-Oxygen Sedation (2 cr)**

A comprehensive lecture and laboratory course providing basic concepts and techniques for the safe and effective administration of local anesthetic agents and nitrous oxide-oxygen sedation. Students will gain experience in medical history review, vital sign collection, record keeping, patient management, and hands on experience administering local anesthetics and nitrous oxide-oxygen sedation in a clinical setting.

- OB 415 Clinical Dental Radiology (yearly) 0 CR**  
This course is designed to assess the student's competency in dental radiographic technique, quality evaluation and recognition of normal and abnormal anatomy. The course also serves to provide feedback and/or remedial instruction to help the student master and improve their skills.
- DH 423 Clinical Dental Hygiene III (4 cr)**  
A clinical course which provides the student with experience in comprehensive patient care. Internal rotations in admissions/treatment planning and surgical specialties are featured. External rotations provide unique opportunities in hospital hygiene, public health, private rural practices and communities, and state institutions.
- DH 425 Clinical Techniques III (2 cr)**  
Continuation of advanced theory and techniques, with an emphasis on research, management, planning and implementation of treatment for periodontal patients and immunocompromised patients. Lecture, laboratory practice and patient therapy includes: intraoral photography, soft tissue curettage or de-epithelialization with a laser, dental care and maintenance for the medically compromised patient, acute periodontal diseases, periodontal risk factors, implant placement and maintenance, video-imaging systems, bleaching techniques, desensitization, chemotherapeutic agents, tobacco cessation, use of supplemental instruments and how to develop a case presentation.
- PER 434 Periodontal Treatment (1 cr)**  
This course provides an overview of periodontal surgical therapy from the standpoints of: 1) assessing need; 2) general surgical principles; 3) postoperative care; 4) flap design and suturing; and 5) objectives and methods for individual techniques, including soft tissue resection, flap curettage, osseous recontouring, crown lengthening, osseous regeneration, mucogingival surgical and plastic procedures and preprosthetic surgery. Periodontal maintenance therapy is reviewed.
- OB 491 Clinical Oral Pathology (2 cr)**  
Presentation by individual case study of common clinical, radiographic, and histopathologic material. Students learn to recognize, manage and develop a useful differential diagnosis for the lesions through classroom exercises.

## **SECOND SEMESTER SENIOR YEAR**

- DH 406 Community Dental Health (3 cr) A continuation of DH406 which began in the first semester of senior year.**  
A survey of the theory and practice of community health, particularly as it applies to dental health; methods used to determine dental health status in communities, procedures for improving the dental health of the public, and procedures in health education.
- OB 415 Clinical Dental Radiology (yearly) 1 CR**  
This course is designed to assess the student's competency in dental radiographic technique, quality evaluation and recognition of normal and abnormal anatomy. The course also serves to provide feedback and/or remedial instruction to help the student master and improve their skills.
- DH 426 Professional Perspectives (2 cr)**  
A course designed to familiarize the students with professional demeanor, office management and economics, the history of dental hygiene, legal responsibilities, ethics and jurisprudence, educational requirements and credentials, functions and benefits of the professional dental hygiene organization, career alternatives, employment issues, and trends as related to the dental hygiene profession.
- DH 428 Clinical Dental Hygiene IV (4 cr)**  
Clinical Dental Hygiene IV-DH 428 is a continuation of DH 423. Clinical requirements emphasize the clinical skills presented in DH 425 and a development of speed and efficiency while improving competency in the delivery of patient services.
- DH 430 Clinical Techniques IV (2cr)**  
A continuation of the theory and technique of advanced clinical skills, with an emphasis on expanded DH functions, including the treatment and management of patients. Lecture and laboratory practice includes occlusal screening, temporomandibular disorders (TMD), endodontic evaluation, drug interactions update/prescription writing, utilization of the Wand, third party reimbursement protocols,

written mock board examinations and guest lecturers.

**ARD 432 Geriatric and Special Patient Care (2 cr)**

An introductory course in the management of special needs and geriatric dental patients.

**OB 471 A Review of Biomedical/Dental Sciences (1 cr)**

A brief review of the biomedical and dental sciences to assist senior dental hygiene students in studying for the National Board Dental Hygiene Examination.

# COLLEGE OF DENTISTRY FACULTY

Active faculty with appointments of 50% and above is listed.

## ADMINISTRATIVE OFFICERS

<b>John W. Reinhardt</b>	D.D.S., M.S., M.P.H.	Dean
<b>David G. Brown</b>	B.Sc., Ph.D.	Executive Associate Dean and Director of Postgraduate and Graduate Dental Education
<b>Randal L. Haack</b>	B.S., M.P.A., Ph.D.	Assistant Dean for Operations
<b>Timothy M. Durham</b>	B.S., D.D.S., M.P.A.	Assistant Dean for Patient Services
<b>Jeffrey B. Payne</b>	D.D.S., M.Dent.Sc.	Associate Dean for Research
<b>Joan E. Sivers</b>	B.A., D.D.S.	Assistant Dean for Clinics
<b>Curtis G. Kuster</b>	B.S., D.D.S., M.S.	Assistant Dean for Student Affairs
<b>Dennis K. Kent</b>	B.S., D.D.S.	Assistant Dean for Advanced Clinical Practice

## DEPARTMENT OF ADULT RESTORATIVE DENTISTRY

<b>Henry A. St. Germain</b>	B.A., D.M.D., M.S.D., M.A.Ed.	Associate Professor and Chairperson of Department
<b>BIOMATERIALS SECTION</b>		
<b>Mark W. Beatty</b>	B.S., D.D.S., M.S.E., M.S.D., M.S.	Professor and Director
<b>OPERATIVE DENTISTRY SECTION</b>		
<b>David Covey</b>	B.S., D.D.S., M.S.	Associate Professor and Director
<b>Henry A. St. Germain</b>	B.A., D.M.D., M.S.D., M.A.Ed.	Associate Professor
<b>Larry D. Haisch</b>	D.D.S.	Associate Professor
<b>William W. Johnson</b>	D.D.S., M.S.	Associate Professor, Vice Chairperson of Department
<b>John W. Reinhardt</b>	B.A., D.D.S., M.S., M.P.H.	Professor
<b>Hidehiko Watanabe</b>	D.D.S., M.S.	Associate Professor
<b>PRIORITY CARE SECTION</b>		
<b>Joan E. Sivers</b>	B.A., D.D.S.	Associate Professor and Director
<i>Patient-Centered Comprehensive Care Division</i>		
<b>Yoshiharu Ameku</b>	D.D.S.	Clinical Assistant Professor
<b>Mary Lynn Froeschle</b>	B.S., D.D.S.	Associate Professor
<b>James F. Jenkins</b>	B.S., D.D.S.	Assistant Professor
<b>Ernest W. Sigler</b>	B.S., D.D.S.	Assistant Professor
<i>Emergency Dental Services Division</i>		
<b>Thomas Heuke</b>	D.D.S.	Clinical Assistant Professor
<b>Myhanh Phan-Rinne</b>	B.S., D.D.S.	Clinical Assistant Professor
<b>PROSTHODONTICS SECTION</b>		
<b>Gerard Byrne</b>	B.A., B.Dent.Sc., M.S.D.	Associate Professor
<b>Paul A. Hansen</b>	D.D.S.	Associate Professor and Director
<b>Julie A. Marshall</b>	B.S., D.D.S., M.S.	Associate Professor
<b>Joan E. Sivers</b>	B.A., D.D.S.	Associate Professor
<b>Randall W. Toothaker</b>	B.S., D.D.S.	Associate Professor
<b>Myron L. Pudwill</b>	D.D.S., M.S.	Associate Professor
<b>TMD/ORALFACIAL PAIN SECTION</b>		

Ronald Attanasio	<b>B.A., D.D.S., M.S. Ed., M.S.</b>	Professor
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## DEPARTMENT OF DENTAL HYGIENE

<b>Gwen L. Hlava</b>	R.D.H., B.S., M.S.	Professor, Chairperson of Department
<b>Caren M. Barnes</b>	R.D.H., M.S.	Professor
<b>Darlene F Carritt</b>	R.D.H., B.S.	Clinical Instructor
<b>Nicole M. Fritschie</b>	R.D.H., B.S.	Instructor, West Division
<b>Heather M. Hessheimer</b>	R.D.H., M.S.	Assistant Professor
<b>Erica E. Jasa</b>	R.D.H., B.S.	Instructor
<b>Todd N. Junge</b>	R.D.H., B.S.	Assistant Professor
<b>Lisa J. Moravec</b>	R.D.H., B.S.	Coordinator/Clinical Instructor, West Division
<b>Lindsay K. Mundil</b>	R.D.H., M.A.	Assistant Professor
<b>Brenda D. Utecht</b>	R.D.H., B.S.	Instructor

## DEPARTMENT OF GROWTH AND DEVELOPMENT

<b>Curtis G. Kuster</b>	B.S., D.D.S., M.S.	Interim Chair
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### ORTHODONTICS SECTION

<b>Sundaralingam Premaraj</b>	B.S., M.S., Ph.D.	Assistant Professor and Program Director
<b>Peter Spalding</b>	D.D.S., M.S., M.S.	Associate Professor

### PEDIATRIC DENTISTRY SECTION

<b>Scott A. Hamilton</b>	D.D.S.	Assistant Professor, Pre-doctoral Program Director and Interim Postgraduate Program Director
<b>Cynthia Chan</b>	B.S., D.D.S.	Assistant Professor
<b>Curtis G. Kuster</b>	B.S., D.D.S., M.S.	Professor
<b>Fouad Salama</b>	B.D.S., M.S.	Professor

### GENERAL PRACTICE RESIDENCY PROGRAM (GPR)

<b>Alan Hergenrader</b>	D.D.S., F.A.G.D.	Assistant Professor and Program Director
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## DEPARTMENT OF ORAL BIOLOGY

David H. Shaw	B.S., M.S., Ph.D.	Professor and Chairperson of Department
<b>ANATOMIC SCIENCES SECTION</b>		
Stanton D. Harn	B.A., Ph.D.	Professor
Dennis E. Feely	B.S., M.S., Ph.D.	Associate Professor
<b>CELL BIOLOGY SECTION</b>		
Ali Nawshad	B.S., M.S., Ph.D.	Associate Professor
Keith R. Johnson	B.A., B.Ed., Ph.D.	Professor and Nebraska Center for Cellular Signaling Director
Greg Oakley	B.S., Ph.D.	Assistant Professor
Aimin Peng	B.S., Ph.D.	Assistant Professor
James K. Wahl, III	B.S., Ph.D.	Associate Professor
<b>MICROBIOLOGY/IMMUNOLOGY SECTION</b>		
Thomas M. Petro	B.S., M.S., Ph.D.	Professor
John K. Dyer	B.S., M.S., Ph.D.	Professor Emeritus
<b>ORAL MAXILLOFACIAL PATHOLOGY/RADIOLOGY SECTION</b>		
Shawneen Gonzalez	D.D.S., M.S.	Assistant Professor
Peter Giannini	D.D.S., M.S.	Associate Professor
Nagamani Narayana	D.M.D., M.S.	Associate Professor
<b>PHARMACOLOGY SECTION</b>		
Y.K. Eric Fung	B.S., Ph.D.	Professor
David H. Shaw	B.S., M.S., Ph.D.	Professor
<b>PHYSIOLOGY SECTION</b>		
Larry D. Crouch	B.S., M.S., Ph.D.	Associate Professor
Dona J. Housh	B.S., M.P.E., Ph.D.	Professor

### SERVICE LEARNING/PRACTICE MANAGEMENT/OUTREACH SECTION

David G. Brown	B.Sc., Ph.D.	Professor
David G. Dunning	B.A., M.A., Ph.D.	Professor
Brian M. Lange	B.S., M.S., Ph.D.	Professor and Section Director
Kimberly K. McFarland	D.D.S., M.H.S.	Assistant Professor

## DEPARTMENT OF SURGICAL SPECIALTIES

J. Bruce Bavitz	D.M.D.	Professor and Chairperson
<b>ENDODONTICS SECTION</b>		
Fahd Alsalleeh	B.D.S., M.S., Ph.D.	Assistant Professor and Director Post Grad Endodontics
Hany-Anwar M. Makkawy	D.D.S.	Assistant Professor and Director of Undergraduate Endodontics
Merlyn W. Vogt	D.D.S., Ctf in Endodontics	Assistant Professor and Director of Alumni Affairs

<b>ORAL AND MAXILLOFACIAL SURGERY SECTION</b>		
<b>J. Bruce Bavitz</b>	D.M.D.	Professor and Director of Oral Surgery
<b>Darrell J. Ebke</b>	D.D.S.	Assistant Professor
<b>PERIODONTICS SECTION</b>		
<b>Matthew R. Byarlay</b>	D.D.S., M.S.	Assistant Professor and Director Post Grad Periodontics
<b>Jennifer A. Harn</b>	B.S., R.D.H.	Assistant Professor, Co-director Undergraduate Program Periodontics
<b>Wayne B. Kaldahl</b>	D.D.S.	Professor
<b>Jeffrey B. Payne</b>	D.D.S., M.Dent.Sc.	Professor, Associate Dean of Research
<b>Richard A. Reinhardt</b>	D.D.S., M.S., Ph.D.	Professor and Co-director Undergraduate Program
<b>Gerald J. Tussing</b>	D.D.S., M.S.D.	Professor

**UNIVERSITY OF NEBRASKA MEDICAL CENTER  
COLLEGE OF DENTISTRY**

**ACADEMIC YEAR 2010-2011**

First Semester

August 19-20 (Thurs-Fri)	Student Orientation Programs
August 20 (Friday)	All-College Conference
August 23 (Monday)	First Semester Classes & Clinic Begin
September 6 (Monday)	Labor Day - University Holiday
September 24-25 (Fri-Sat)	College of Dentistry Homecoming
October 15 (Friday)	Mid-Semester Scholastic Reports Due
November 24-28 (Wed-Sun)	Student Thanksgiving Recess
November 25-28 (Thurs-Sun)	University Holidays
December 10 (Friday)	Last Day of 1st Semester Classes & Clinic
December 13-17 (Mon-Fri)	First Semester Exams
December 17 (Friday)	Last Day of First Semester
December 18 (Saturday)	UN-L Commencement
December 24 (Thurs) -January 2 (Sun)	University Holidays

Second Semester

January 3 (Monday)	First Day of Second Semester Clinic
January 7 (Friday)	Weeth Lecture
January 10 (Monday)	Second Semester Classes Begin
January 17 (Monday)	Martin Luther King Day (College Closed)
March 4 (Friday)	Mid-Semester Scholastic Reports Due
March 12-March 20 (Sat-Sun)	Student Spring Vacation
March 25 (Friday)	Professionals' Day and Student Scientific Program
April 29 (Friday)	Last Day of 2nd Semester Classes & Clinic
TBA	Dental Hygiene CRDTS Regional Board Exam
May 2-May 6 (Mon-Fri)	Second Semester Exams
May 6 (Friday)	Last Day of Second Semester
May 6 (Friday)	UNMC College of Dentistry Commencement
May 7 (Saturday)	UNMC Commencement/Omaha
May 7 (Saturday)	UN-L Commencement/Lincoln

Summer Session 2010

May 16 (Monday)	First Day of Summer Classes & Clinic
May 30 (Monday)	Memorial Day Holiday
July 1 (Thursday)	Post Graduate Orientation
July 4 (Monday)	Independence Day Holiday
July 8 (Friday)	Last Day of Summer Classes & Clinic

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## **UNIVERSITY OF NEBRASKA MEDICAL CENTER COLLEGE OF DENTISTRY**

### **ACADEMIC YEAR 2011-2012**

#### First Semester

August 18-19 (Thurs-Fri)	Student Orientation Programs
August 19 (Friday)	All-College Conference
August 22 (Monday)	First Semester Classes & Clinic Begin
September 5 (Monday)	Labor Day - University Holiday
TBA	College of Dentistry Homecoming
October 14 (Friday)	Mid-Semester Scholastic Reports Due
November 23-27 (Wed-Sun)	Student Thanksgiving Recess
November 24-27 (Thurs-Sun)	University Holidays
December 9 (Friday)	Last Day of 1st Semester Classes & Clinic
December 12-16 (Mon-Fri)	First Semester Exams
December 16 (Friday)	Last Day of First Semester
December 17 (Saturday)	UN-L Commencement
December 26 (Fri) -January 2 (Mon)	University Holidays

#### Second Semester

January 3 (Tuesday)	First Day of Second Semester Clinic
January 6 (Friday)	Weeth Lecture
January 9 (Monday)	Second Semester Classes Begin
January 16 (Monday)	Martin Luther King Day (College Closed)
March 2 (Friday)	Mid-Semester Scholastic Reports Due
March 17-March 25 (Sat-Sun)	Student Spring Vacation
TBA	National Board Exams (Dental Hygiene)
March TBA (Friday)	Professionals' Day and Student Scientific Program
April 27 (Friday)	Last Day of 2nd Semester Classes & Clinic
TBA	Dental Hygiene CRDTS Regional Board Exam
April 30 (Fri) - May 4 (Mon-Fri)	Second Semester Exams
May 4 (Friday)	Last Day of Second Semester
May 4 (Friday)	UNMC College of Dentistry Commencement
May 5 (Saturday)	UNMC Commencement/Omaha
May 5 (Saturday)	UN-L Commencement/Lincoln

#### Summer Session 2011

May TBA (Monday)	First Day of Summer Classes & Clinic
May 28 (Monday)	Memorial Day Holiday
July 2 (Friday)	Post Graduate Orientation
July 4 (Monday)	Independence Day Holiday
July TBA (Friday)	Last Day of Summer Classes & Clinic

## UNIVERSITY GOVERNANCE

### THE BOARD OF REGENTS

**Timothy Clare, J.D.**, District 1  
**Howard Hawks**, District 2  
**Chuck Hassebrook**, District 3  
**Bob Whitehouse**, District 4  
**Jim McClurg, Ph.D.**, District 5  
**Kent Schroeder, J.D.**, District 6  
**Bob Phares**, District 7  
**Randolph Ferlic, M.D.**, District 8  
**Nathan Summerfield**, University of Nebraska at Kearney  
**Justin Solomon**, University of Nebraska – Lincoln  
**Andrew Klutman**, University of Nebraska Medical Center  
**Michael Crabb**, University of Nebraska at Omaha  
**Donal Burns, PhD.**, Corporation Secretary

### UNIVERSITY-WIDE ADMINISTRATIVE OFFICERS

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**Linda R. Pratt, Ph.D.** Executive Vice President and Provost  
**David E. Lechner, B.S., B.A.**, Vice President for Business & Finance  
**Peter G. Kotsiopoulos**, Vice President for University Affairs  
**Joel Pedersen, J.D.**, Vice President General Counsel  
**John C. Owens, Ph.D.**, Vice President and Vice Chancellor of Agriculture & Natural Resources

### UNIVERSITY OF NEBRASKA MEDICAL CENTER

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**Rubens J. Pamies, M.D.**, Vice Chancellor, Academic Affairs  
**Donald S. Leuenberger**, Vice Chancellor, Business & Finance  
**Thomas H. Rosenquist, Ph.D.**, Vice Chancellor, Research  
**Robert D. Bartee**, Vice Chancellor, External Affairs  
**Ward A. Chambers, M.D.**, Coordinator of Programs, International Health and Medical Education  
**Yvette A. Holly**, Assistant Vice Chancellor, Information Technology Services  
**John W. Reinhardt, D.D.S., M.S., M.P.H.**, Dean, College of Dentistry  
**Rodney Markin, M.D., Ph.D.**, Interim Dean, College of Medicine  
**Virginia P. Tilden, D.N.Sc.**, Dean, College of Nursing  
**Courtney V. Fletcher, Pharm. D., Ph.D.**, Dean, College of Pharmacy  
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