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UNIVERSITY OF MINNESOTA

SCHOOL *of* DENTISTRY



DOCTOR *of* DENTAL SURGERY

BACHELOR *of* SCIENCE IN DENTAL HYGIENE

2001-2003 CATALOG

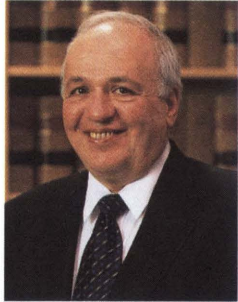
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On behalf of our faculty, staff and students,
I welcome your interest in the dental
profession and the University of Minnesota
School of Dentistry.

A Letter *from* the Dean



As one of the outstanding dental schools in
the world, we make three commitments: to
educate dental professionals; to discover new
knowledge, technology and skills; and to apply
those discoveries to the dental profession and
the communities it serves.

We promise a challenging clinical education in
a supportive environment in which you can
develop the skills to attain your career goals.

We promise opportunities for professional
growth and involvement as good citizens of
your profession and the community. And while
the demands before, during and after dental
school are many, we promise that the rewards
will be even greater.

We are proud of our school and its reputation
of excellence, and invite you to explore more
fully the opportunities we offer.

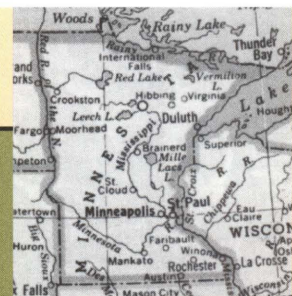
A handwritten signature in black ink, appearing to read "Peter J. Polverini". The signature is stylized and cursive.

Peter J. Polverini, DDS, DMSc
Dean

The University of Minnesota is chartered.

1851

In 1858, Minnesota became 32nd state in the union. The University
closed for the Civil War from 1861-67.



A Tradition of Pioneers



Dr. Edith H. White, seen here in fencing attire, was the first woman graduate of the University of Minnesota College of Dentistry.

In 1888, Edith H. White set aside her love for travel, fencing and mountain climbing to join 21 young colleagues at the University of Minnesota College of Dentistry. They were the first class at a new dental school, and a faculty of four taught these inaugural students how to run a dental engine with a foot pedal, how to make their own lab and clinical instruments and how to protect the oral health of future patients. When the new dentists graduated three years later and launched their practices — some in Midwestern hometowns and others as far away as Alaska’s Yukon Territory, where Edith White followed the gold rush — they were hailed not only as health care experts with valued skills, but also as true pioneers.

That leadership tradition still thrives at the School of Dentistry. The dental hygiene baccalaureate program is considered one of the country’s best. The faculty is known throughout the world for significant contributions to ongoing dental research and technology. And although today’s students no longer make their own instruments, they remain pioneers — in research, in education, in clinical services, in outreach and in excellence.

Pioneering Through Research

Were Edith White in today’s class, she would not have to navigate the Yukon to find excitement. Exploring current research would offer adventure enough.

The School of Dentistry has pioneered research in pain control, tumor growth, fluoridation, microbiology and disease prevention. In 1990, a \$2.5 million National Institutes of Health grant helped launch the Oral Health Clinical Research Center, one of only four U.S. centers that transfers research and technology advances into clinical areas to enhance diagnosis, prevention and treatment of oral diseases.

The School is also home to the Dental Research Institute, a world leader in cancer pain research, discoveries that link oral disease with heart disease and knowledge about molecular motors and how DNA is packaged into viruses.

The Minnesota Center for Biomaterials and Biomechanics, which works closely with manufacturers to create and test new dental products and materials, has contributed major innovations to the field. The Virtual Dental Patient, a computerized imaging program capable of predicting a patient’s oral health problems, is one example. Another is an artificial mouth that duplicates one year of chewing in a single day — an invention unique enough to earn display rights at the Smithsonian Institution in Washington, D.C.

St. Joseph’s Oil sells for 50 cents and promises relief from toothaches, sprains, frostbite and quinsy.

An ad for Smith’s Bile Beans promised to purify the blood by “acting directly and promptly on the Liver, Skin and Kidneys.”

This represents a healthy life, throughout its various stages.

Just such a life as they enjoy who use the Smith's Bile Beans.

Smith's BILE BEANS purify the blood, by acting directly and promptly on the Liver, Skin and Kidneys. They consist of a vegetable combination that has no equal in medical science. They cure Constipation, Cholera, and Dyspepsia, and are a safeguard against all forms of fevers, chills and fever, gall stones, and Bright's disease. Send 3 cents postage for a sample package and test the TRUTH of what we say. Price, 25 cents per bottle.

The original photograph, sent me, of one system sent me report of 100. In name, I believe, St. Louis, Mo.



“The entire dental school is smaller than my high school class. You really get to know people here.”

*Hien To
Second-Year Dental Student*

Choosing the Best, Then Training Them Well

Students at the School of Dentistry rank high in their undergraduate classes, with an overall 3.5 grade point average. Nationally, their Dental Admission Test scores are among the highest. Students accepted into the four-year dental hygiene program are also among the best and brightest, and pursue teaching and research as well as clinical careers.

The days of Edith White’s three-year dentistry program, however, are long gone. Today the four-year D.D.S. program, which typically follows four years of undergraduate classes, features diverse courses in basic, clinical and behavioral sciences, as well as interpersonal communication, practice management, clinical experiences and business skills.

Students pursuing advanced training can choose 13 clinical specialty or special focus areas, including clinical research, oral biology and public health. Master’s and Ph.D. programs, offered in conjunction with the University of

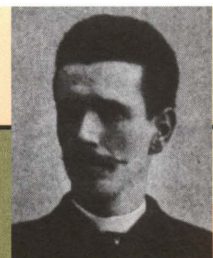
Minnesota Graduate School, prepare general dentists, specialists, and dental hygienists for academic, research and administration careers. However, teaching is still personal as it was in Edith White’s small class. In fact, the School of Dentistry pioneered a learning concept known as Patient Care Groups, which pairs a team of 8 to 10 students with a faculty adviser for regular discussions about patient care and practice management issues. Yet teaching methods vary widely, from traditional lectures to tutorials and small groups, from routine labs to computer simulations, and from clinical practice in a large comprehensive care facility to experience in diverse community settings.

Dental engines and instruments have changed — a lot — since 1888. The School’s Center for Contemporary Dentistry is a state-of-the-art dental clinic that features every type of cutting-edge technology available. Generous support from Patterson Dental Supply, Inc. ensures that the clinic is equipped with the latest innovations.



Faculty members are skilled dentists, clinicians, scientists and researchers. But where you are concerned, they are teachers first. You get the personal attention you need.

University of Minnesota College of Dentistry is founded as a division of the Department of Medicine.



Started with four professors, the College was the 8th university-based dental school in the U.S. Dr. Gainsford Ridgeway was the first graduate.



STAR TRIBUNE 2001

“My family and I were migrant workers and never had the resources to receive adequate dental care. Migradent gave me an opportunity to give back to my community.”

*Maria Perez
Dental Hygiene Student*

The School of Dentistry trains more than 95 percent of Minnesota’s dentists and a majority of those in neighboring states. Yet graduates also pursue careers as far away as Madagascar and Peru. Their education is ongoing; dentists and hygienists select from more than 100 continuing education programs annually and online distance learning is available 24 hours a day.

Reaching Out to Support Communities

Edith White and her classmates gained part of their clinical experience by dispensing free care in a building on Seven Corners in Minneapolis, near their school. That community outreach

tradition not only continues, it has expanded beyond city and country borders.

Today, School of Dentistry students treat patients in on-site clinics — more than 100,000 patient visits annually — where they provide general care as well as pediatric and geriatric dental services (the geriatric dentistry training program is the nation’s first). Orthodontic, endodontic, periodontic, oral diagnosis/radiology, oral pathology, prosthodontic, oral and maxillofacial surgery and pediatric dental services are also available. Patients with special needs also visit clinics that treat cleft lips and palates, facial dental anomalies, smoking cessation, temporomandibular joint/chronic facial pain and dental implants.

Dental and dental hygiene students can also enhance their skills in eight off-site service programs, including portable clinics that travel throughout Minnesota. At the Union Gospel Mission in St. Paul, the low-income and homeless receive free services. And through Migradent, a program launched in conjunction with three other agencies in 1996, students and faculty diagnose, treat and teach oral health principles to the children of Minnesota’s migrant workers.

Some students travel even farther afield — to Jamaica, where the Dental School has led the Jamaica Volunteer Mission annually since 1986. Fourth-year dental and dental hygiene students spend 10 days on the island, where citizens have a high rate of dental caries and periodontal

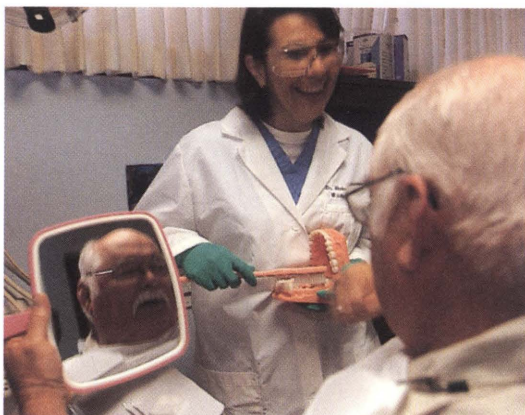
Gophers play their first football game against Wisconsin and win 63-0.



At the intramural level, the “Dents” and “Medics” competed fiercely to defend the honor of their respective schools.

disease. The effort has evolved over the years, first concentrating on treatment of pain and acute infection, then expanding to include preventive and restorative procedures.

This global vision is nothing new. The School of Dentistry has exchanged students and faculty with countries throughout the world since 1921. By the 1980s, these teaching, research and consulting experiences had touched 88 countries, from Australia to Tobago. Faculty and students have provided dental care to a vast array of international patients, from Republic of Malagasy villagers to Vietnamese refugees to members of the royal family in Qatar (where the palace dental clinic boasts Persian rugs and Italian marble walls).



Launching Leaders

Like Edith White, whose career took her from Minneapolis to Chicago to Alaska, those who choose a career in dentistry can expect a challenging and rewarding future. An aging population, changing patterns of dental care and an expanding health care sector point to a strong demand for dentists in the next 10 to 15 years. Research and technology advances promise that tomorrow's dentists and dental hygienists will deliver a wider range of dental and personal health services than ever before.

Eighty-three percent of the more than 149,000 dentists in the U.S. are in private practice. Today, more graduates — about 30 percent — are forming partnerships and group practices than in the past, and about 20 percent of all dentists practice a dental specialty.

As the face of dentistry across the country continues to grow and change, so, too, must the way in which dental schools teach and students learn. The pioneering tradition that has served the School of Dentistry since 1888, and led to outstanding performance in research, education and community service, is not just important to the future of today's aspiring dental health care providers. Like the leaders it launches, it is essential.

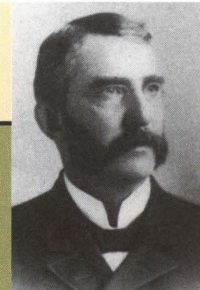


The School of Dentistry has earned an international reputation for its educational, clinical, research, service and patient care programs.

School's first dean, William X. Sudduth, introduces hypnotism as an "anesthetic" in his popular oral surgery lectures.

1893

In 1894, patients wishing to have teeth extracted with ether paid a deposit of one dollar on artificial teeth.



Overview of the School of Dentistry

The mission of the School of Dentistry is to educate dental professionals; discover new knowledge, technology and skills; and to apply those discoveries to the dental profession and the communities it serves.

The School of Dentistry is part of the health sciences complex on the University of Minnesota's Minneapolis campus. Its main offices, classrooms, clinics, laboratories, reading and resource rooms are located in the Malcolm Moos Health Sciences Tower, a state-of-the-art setting for research, teaching and practicing dentistry and dental hygiene. Anatomy laboratories are located in an adjacent building.

Administrative Offices:
School of Dentistry
15-209 Malcolm Moos Health Sciences Tower
515 Delaware Street S.E.
Minneapolis, MN 55455
www.umn.edu/dental

Accreditation and Membership

Undergraduate dental and dental hygiene programs and all specialty training programs are accredited by the Commission on Dental Accreditation. The School of Dentistry is a member of the American Dental Education Association.

Degrees Offered

The dental and dental hygiene programs emphasize scientific, scholarly, interpersonal communication and practice management skills required of graduates in a continually changing profession. Career planning is integrated into the core curriculum. Each curriculum offers a wide range of courses in:

- (1) basic sciences;
- (2) pre-clinical and clinical sciences;
- (3) behavioral sciences;
- (4) professional, interpersonal and communications skills; and
- (5) practice management and business skills.

Teaching methods are tailored to course content and include traditional lectures, small group tutorials, cooperative learning teams, routine laboratories and advanced simulation, clinical practice in a comprehensive care facility and community-based clinical experiences.

Doctor of Dental Surgery (D.D.S.)

The D.D.S. program is a four-year degree. Admission and graduation requirements are on pp. 18-28.

A Bachelor of Science (B.S.) in dentistry is not offered through the School of Dentistry. However, students can earn a B.S. degree while completing a D.D.S. degree if the college at which they completed pre-professional coursework recognizes the School of Dentistry's coursework and awards the degree independently. For more information, contact your undergraduate institution.

Bachelor of Science (B.S.) in Dental Hygiene

The B.S. program is open to entry-level students and the Degree Completion Program is open to graduates of accredited associate degree programs in dental hygiene. Admission and graduation requirements are on pp. 12-17.

Advanced Education and Graduate Programs

Advanced education and graduate programs prepare dental professionals for careers in specialty practice, as well as advanced general dentistry, research, education and administration.

Advanced clinical specialty training programs are offered in endodontics, geriatrics, oral and maxillofacial surgery, orofacial pain, orthodontics, pediatric dentistry, periodontics and prosthodontics. Advanced training in general dentistry is also available through a one-year general practice residency and advanced education in general dentistry programs.

A Master of Science (M.S.) in dentistry is offered through the University's Graduate School to train leaders in dental research, education, administration, and advanced clinical and oral sciences. This program is open to dentists in advanced clinical training programs and dental hygienists with baccalaureate degrees (see the *Graduate School Catalog* or www.umn.edu/commpub/gradindex.html for details).

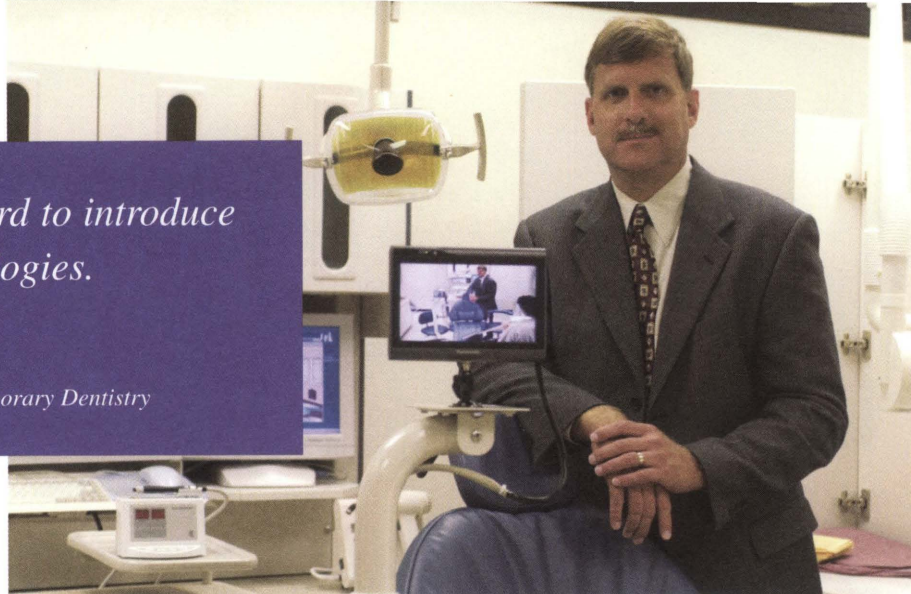
The use of x-rays as a diagnostic tool becomes available for dental practice and instruction.



“Most dental schools can’t afford to introduce students to cutting edge technologies.

We can and we do.”

*Dr. Dan Skaar
Center for Contemporary Dentistry*



M.S. and Ph.D. programs in oral biology are offered through the University’s Graduate School for those who wish to pursue advanced basic science training. The dentist-scientist program provides a Ph.D. in basic sciences and clinical specialty training.

M.S. and Ph.D. degrees are also offered in clinical research, biological sciences and public health through the University Graduate School (see the *Graduate School Catalog* or go to www.umn.edu/commpub/gradindex.html).

An Innovative Approach to Learning

The School of Dentistry pioneered Patient Care Groups, an innovative learning experience that integrates clinical, management and interpersonal skills with patient care. Supported by a faculty adviser, teams of 8-10 dental and dental hygiene students enhance classroom and clinical experience through case-based learning. Students share patient experiences, confer on difficult cases, solve clinical problems, collaborate on ethical issues, and fine-tune patient management, decision-making and communication skills.

Participants also establish a model dental practice and make fundamental decisions related to managing that practice. They establish a practice philosophy, set salaries and fees, interview and hire/fire staff, develop office systems, secure financing and run profit/loss scenarios in consultation with practicing dentists, bankers and financial planners.

An Acclaimed Research Institution

The School’s research faculty has pioneered discoveries in cancer pain research, fluoride, the link between bacteria in dental plaque and heart disease and is making promising advancements in knowledge about molecular motors and how DNA is packaged into viruses.

The Artificial Mouth, a research tool for measuring the strength of dental materials was developed here. The Artificial Mouth can duplicate the effects of one year of chewing in a single day, allowing a unique opportunity to evaluate new dental materials.

School researchers also developed the Virtual Dental Patient, a computerized, three-dimensional imaging program capable of indexing and measuring clinical outcomes and predicting a patient’s oral health problems.

Special Clinics

The Center for Contemporary Dentistry offers students an opportunity to use the most advanced technology available. The Center features the latest in operatory equipment, clinical and administrative software, digital radiology, intra-oral camera and air abrasion systems, clinical microscopy and a CAD/CAM restorative system. Generously supported by Patterson Dental Supply, Inc., it is the only comprehensive teaching clinic of its kind.

The Center for Contemporary Dentistry is a state-of-the-art surgical and restorative clinic.

Fire damages Medical Hall; dental classes resume 10 days later in temporary facilities.

1912

In 1916-17, the School’s D.D.S. program expanded to four years for “preparation of dental surgeons of the best type.”



The Cleft Palate, Craniofacial Anomalies, and Orofacial Pain Clinics provide interdisciplinary student training and patient services for people with congenital or acquired defects. A head and facial pain clinic evaluates and treats patients with complicated pain.

On-Site Patient Care Clinics, staffed by students and faculty, account for more than 100,000 patient visits annually. Students also fine-tune clinical skills in off-site clinics that provide dental and dental hygiene services to rural Minnesota communities, children of migrant workers and the urban homeless.

Continuing Education

Short courses are offered on campus and online to update dental professionals on new developments in clinical and research procedures. Dental and dental hygiene students are encouraged to participate in selected courses during their senior year. Dental graduates receive free continuing education classes for 18 months after graduation.

Alumni Support

The School has an active alumni organization whose generous mentoring and financial commitments support educational programs, endowments and research projects. *Dentistry* magazine is published twice a year for alumni, friends, donors, students and parents to inform them about School news and activities.

University Policies

For a complete listing of School of Dentistry policies, see the *Student Handbook* or go to the School's web site at www.umn.edu/dental. For a complete listing of University of Minnesota policies, go to www.umn.edu/usenate/policies.

Foreign applicants who are accepted must guarantee sufficient funds to meet all educational and personal expenses during their F-1 status at the University.

Smoking is prohibited in all facilities of the University except for designated private residence hall rooms.

Student Services

Refer to the *Resource Guide* on p. 31 to contact the organizations below.

Disability services: The Office of Disability Services ensures access to courses, services, activities, employment and facilities for students, faculty and staff with disabilities. Students with a documented disability (i.e., physical, learning, psychiatric, vision or hearing) who need to arrange reasonable accommodations must contact Disability Services to be eligible for services. Assistance is available to help students document disability conditions and determine/implement reasonable accommodations, and for information, referral, consultation and training. All services are confidential.

Counseling: Counseling is available from individual faculty members, University Counseling and Consulting Services, Boynton Health Service, the Division of Dental Hygiene and the Office of Enrollment Management.

Financial aid: The Office of Student Finance offers financial assistance and advising. Applications should be filed as soon after January 1 as possible. Dental hygiene students are advised to apply for financial aid at the time they apply for admission.

Student employment: The University Job Center posts part-time and summer job openings, but the demands of the dental and dental hygiene programs make it difficult for students to devote much time to outside employment. A number of research fellowships are available to School of Dentistry students.

Placement: The School's placement program is a clearinghouse for information about employment opportunities. Anyone wishing to sell a dental practice, hire an associate, and/or hire a dental hygienist is welcome to post information about a position. For information, call the Office of Enrollment Management.

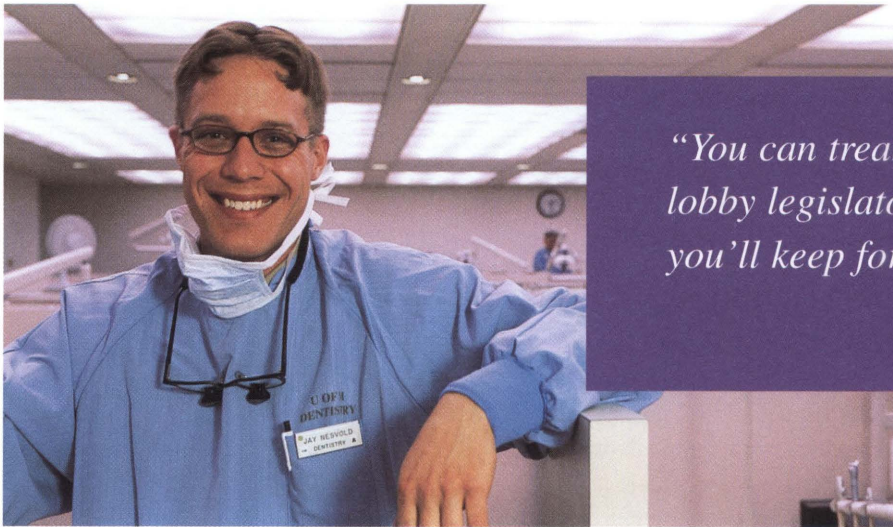


The Reading Room, Learning Resource Center and Bio-Medical Library are all located in the health sciences complex. These facilities contain more than 420,000 reference books, periodicals and research abstracts.

Early graduation allows two-thirds of the dental class to serve in the U. S. Army as first lieutenants in the Dental Reserve Corps.



In 1918, the entire class of 90 students enlisted in the Dental Reserve Corps.



“You can treat patients in Australia, lobby legislators and make friends you’ll keep for life.”

*Jay Nesvold, D.D.S.
2001 Graduate*

Student Life

Dental and dental hygiene students participate in a variety of organizations that provide an introduction to professional life and a voice in shaping the future of dentistry.



Undergraduate dental and dental hygiene students have representatives with voting privileges on School of Dentistry committees that deal with student concerns, including the Admissions Committee, Educational Policy Committee, Council of Students, Student Affairs Committee and the School of Dentistry Alumni Society. These committees address issues related to admissions, educational policy and programs, student affairs, ethics, alumni relations, publications, financial aid, counseling, tutorial assistance and clinical affairs.

“Education must be involved in the affairs of the world, concerned with the community and committed to caring.”

*Dedication Plaque
Moos Tower*

Students also participate in student organizations, including The Center for Health Interdisciplinary Participation, an organization for students in the Academic Health Center, and the Graduate and Professional Student Association, which represents the interests of University graduate and professional students.

National Organizations

The American Student Dental Association is a student-run organization representing the interests of dental students. The Minnesota chapter sponsors student functions and provides information about practice management, managed care and legislative issues. Two representatives from each class serve as board members. Students may serve on eight standing

Two-year dental hygiene program, then restricted to women, begins.

1920

In 1919, the State of Minnesota started licensing “dental nurses.”



committees or apply for national positions or externships. Leaders in the local chapter are elected and many attend national and regional meetings. Benefits include publications, insurance programs, credit card program, etc.

The American Dental Education Association

is open to faculty, dental students, dental hygiene students and individuals with an interest in dental education. Membership benefits include dental education advocacy, professional development opportunities, publications, workshops and conferences.

The Student American Dental Hygienists' Association is a dental hygiene student's first link to the profession. Members join the student chapter of the national association. Benefits include publications, health and insurance programs, legislative advocacy, etc. Activities include community outreach, lunch and learn sessions, and social activities.

State Professional Organizations

Minnesota Dental Association: Dental students belong to the Minnesota Student District Dental Society, which is the eighth district of the Minnesota Dental Association, the state affiliate of the American Dental Association.

Minnesota is the first state and one of only two in the nation to extend membership privileges to dental students, including participation on all Association committees and voting representation on its Board of Trustees and at policy-making sessions of its House of Delegates. Dental and dental hygiene students are also invited to attend the Association's annual scientific meeting.

Minnesota Dental Hygienists' Association:

One student from each dental hygiene class is selected to serve as a voting student delegate to the annual session of the Minnesota Dental Hygienists' Association.

Fraternities and Honor Societies

Fraternities: There are two professional dental fraternities at the University of Minnesota: Delta Sigma Delta and Psi Omega. These fraternities have undergraduate chapters in this country, as well as active international alumni chapters.

Professional fraternities enable dental students to develop close ties with their peers and alumni. After graduation, fraternity alumni organizations across the nation provide valuable professional and social contacts, expert advice and professional guidance.

Dental fraternities feature speakers, tours and forums, as well as social activities. Additional benefits include on-campus residence and/or parking.

Honor societies: Graduating dental students may be elected by the faculty to the Beta Beta Chapter of the national dental honor society, Omicron Kappa Upsilon. Graduating dental hygiene students may be elected to the Eta Chapter of the National Dental Hygiene Honor Society, Sigma Phi Alpha.

Community Outreach Programs

Any dental professional will say that "doing" dentistry is the best way to learn: Pre-clinical students work on typodonts (models), while more advanced students work on actual patients under supervision and mentoring by faculty.

But one of the school's most popular programs offers learning experiences beyond those available in the classroom or clinic. The School's community outreach program enables



There are two professional dental fraternities at the University of Minnesota: Delta Sigma Delta and Psi Omega.

Graduate Dr. Jee Lum Wong returns to China and 13 years later is named dean of a new dental school in Nanking.



dental and dental hygiene students to refine clinical skills and develop a broad understanding of the health and social responsibilities they will have as dental professionals. Students can participate in as many as eight different outreach programs, including the following:

Jamaica Volunteer Mission: Since the mid-1980s, the School of Dentistry has organized a 10-day dental mission to Trelawny, Jamaica, where teams of 10-12 faculty and fourth-year dental and dental hygiene students treat a wide range of preventive and restorative dental needs. Trelawny has one of the highest rates of decay and periodontal disease in the world.

Migradent: The School of Dentistry launched Migradent in 1996 to diagnose, treat and instruct the children of Minnesota migrant workers about oral health. Staffed by dental and dental hygiene students, faculty and staff, the Migradent program provides diagnostic, restorative and preventive services.

Union Gospel Mission: Two evenings each week, students and faculty provide volunteer dental care for the homeless in a newly renovated St. Paul clinic.

Community clinics: A number of off-campus programs help students define and refine their clinical skills and assist residents of rural communities in accessing care. Some are single day clinics, while others are one- or multi-week experiences.

Special Opportunities

International Exchanges: The School has maintained an education exchange program for over 20 years. Current exchange agreements are with the College of Dentistry in Århus, Denmark; the Universities of Göttingen and Heidelberg, Germany; the University of Bergen, Norway; the University of Nijmegen, The Netherlands; and the University of Melbourne, Australia.



Summer research fellows take projects from start to finish in a dynamic program designed to further careers in education and research.

This program increases awareness of and appreciation for dentistry in a global context. Students experience a different culture, political system and lifestyle, and return with greater understanding, sensitivity and acceptance of differences in people, their customs and culture.

Oral and Maxillofacial Surgery Externships:

The School assists students interested in off-site oral and maxillofacial surgery externships. For more information, contact the Division of Oral and Maxillofacial Surgery (612-624-9959).

Summer Research Fellowship: Dental and dental hygiene students with an interest in research and postgraduate research training can apply in spring for the summer program. Selected applicants are paired with a faculty mentor. During a 10-week period, students collect and analyze data, undertake a structured research project, and prepare a written research report and poster presentation. Research fellows attend a weekly training seminar to learn about scientific writing, experimental design, statistical analysis, abstract writing, scientific presentations, and responsible conduct of research. Stipends are provided.

Average U.S. dental school investment in dental research is \$2,955.



Bachelor of Science in Dental Hygiene

The Division of Dental Hygiene is part of the School of Dentistry, located in the health sciences complex on the University of Minnesota's Minneapolis campus.

*Division of Dental Hygiene
Student Services Office
9-436 Malcolm Moos Health Sciences Tower
515 Delaware St. S.E.
Minneapolis, MN 55455
612-625-9121
612-625-1605 (fax)
e-mail: thomp034@umn.edu
www.umn.edu/dental*

Dental hygienists practice in a variety of settings including private dental offices and clinics; health departments, hospitals and long-term care facilities; school districts or departments of education; dental, dental hygiene and dental assisting education programs; private business; correctional facilities; private and public centers for patients with special needs; and health maintenance organizations.

The Program

The dental hygiene program was established in 1919 and is accredited by the Commission on Dental Accreditation. It is the only dental hygiene program in Minnesota that grants a baccalaureate degree and is affiliated with a school of dentistry.

The Division of Dental Hygiene offers two programs: 1) An entry-level program for those wishing to pursue a career in dental hygiene; and 2) A Degree Completion Program for graduates of accredited associate degree programs in dental hygiene. Graduates of both programs earn a baccalaureate (B.S.) degree in dental hygiene.

The programs blend a solid dental hygiene clinical education with the biological, behavioral and social sciences, and liberal arts. A commitment to community and service, and to intellectual development and critical thinking is emphasized.

Tuition and Fees

For information on tuition, fees and estimated total expense, consult the *Class Schedule* or the estimated expense information provided by the Division of Dental Hygiene. The School provides all instruments and supplies. Students pay a usage fee.

Faculty members collaborate with U.S. Public Health Service in research on topical application of fluoride on dental caries.



In the same decade, the dental hygiene program moved from a nursing focus to an emphasis on dental hygiene and liberal arts.

“If you want real-world learning — alongside dental students and faculty — you come here.”

*Christina Pfingsten
Dental Hygiene Student*



Reciprocity and Resident Tuition

Application for reciprocity is separate from application for admission.

Qualified residents of Wisconsin, North Dakota, South Dakota and Manitoba who attend the University of Minnesota may apply for reciprocity privileges and pay tuition equal or comparable to Minnesota residency rates. Residents of Kansas, Michigan, Missouri and Nebraska may be eligible for reduced tuition at the University of Minnesota through the Midwest Student Exchange Program. Students who qualify pay 150% of Minnesota resident tuition. For more information, call the University residency adviser at 612-625-6330.

Admission

Applicants should have a genuine interest in human services and in promoting public health and welfare. A strong interest in the natural, social and behavioral sciences is encouraged.

A class is admitted each fall and admission is competitive. Applicants must complete the University of Minnesota's high school preparation requirements prior to entry into the program. Documentation indicating completion of all requirements must be submitted to the Division of Dental Hygiene by August 15 of the year of proposed entry. The Division of Dental Hygiene sets its standards and requirements for admission.

Entry-level program requirements: The following courses or their equivalents must be completed in the College of Liberal Arts or its equivalent at another regionally accredited institution before entry (semester credits follow in parentheses). All courses must be taken on an A-F grading basis. Biology and chemistry will be considered outdated if taken more than five years before the time of application.

Biol 1009 – General Biology (4)
Chem 1011 – General Principles of Chemistry (4)
EngC 1011 or 1013 – University Writing and Critical Reading (4)
FScN 1112 – Principles of Nutrition (3)
InMd 3001 – Human Anatomy (3)
Psy 1001 – Introduction to Psychology (4)
Soc 1001 – Introduction to Sociology (3)
Spch 1101 – Introduction to Public Speaking (3)
Stat 1001 – Introduction to the Ideas of Statistics (3)
Liberal education requirements*

** Students should complete as many liberal education requirements as possible before entering the program. Liberal education requirements not completed before entry must be completed during summers while enrolled in the program. See p. 17.*

Dental hygienists provide educational, clinical, research, administrative, consumer advocacy, change agent and therapeutic services.

Dental graduate program is created and School celebrates its 50th Anniversary.

50th

1939

In 1941, the leading cause of rejection of WWII military inductees was dental defects.



There's a lot to learn. A study partner shares the workload and provides support and encouragement.

Degree Completion Program requirements: For information about the Degree Completion Program, contact the Division of Dental Hygiene.

English proficiency: Applicants who are not native English speakers must submit written evidence of either a Test of English as a Foreign Language (TOEFL) score or a Michigan English Language Assessment Battery (MELAB) score. The TOEFL is offered in written or computerized formats. The MELAB is only available in written format. A written TOEFL score of at least 550, a computerized TOEFL score of at least 213, or a MELAB score of at least 80 is required. The TOEFL/MELAB must have been administered within two years of the date of application. See p. 31 for registration information.

Application Procedure

Applications are accepted from December 1 to February 1 for entry the following fall. Applications received after the deadline will be considered for the alternate list only. Requirements include:

- High school graduation;
- ACT, PSAT, or SAT scores;
- Transcripts of all high school and college courses;
- Evidence of plans to complete specified prerequisite requirements before entry;
- A minimum 2.00 GPA (cumulative, prerequisite and science coursework). However, a GPA well above a 2.00 is usually necessary to be admitted;
- Biology or chemistry, and composition, psychology and/or sociology grades must appear on the transcript at the time of application.

University of Minnesota students: Students already enrolled at the University apply by submitting an *Application for Change of College or Status Form* to the University's Office of Admissions. Forms are available from the Office of Admissions at 240 Williamson Hall, 612-625-2008 and online at <http://www.onestop.umn.edu/Forms>.

Other prospective students: Students not currently enrolled at the University of Minnesota apply by submitting the *Application for Undergraduate Admission* at <http://admissions.tc.umn.edu> or to the University's Office of Admissions.

Information for Accepted Applicants

Immunizations: Students must submit documentation of immunizations required by the University and are urged to complete a physical assessment examination. During the first program year, students must provide evidence of completion of a Hepatitis B vaccination or evidence of antibodies. For more information, go to www.bhs.umn.edu/services.htm.

Criminal background check: Minnesota law requires that a person who provides services that involve direct contact with patients in health care facilities licensed by the Minnesota Department of Health have a background check conducted by the state. The background check covers a wide range of criminal offenses and agency-findings related to maltreatment of children or vulnerable adults. Failure to pass this background check is grounds for dismissal from the program.

Leave of absence: A *Leave of Absence Request Form* must be submitted to the Director of Dental Hygiene. Leaves of absence are granted for up to one academic year only; students must complete the program requirements in effect at the time they re-enter the program.

First American Dental Association accreditation team visits the School which is ranked 6th in the nation.



Curriculum

The following courses must be completed to satisfy graduation requirements (semester credits follow in parentheses) and must be taken A-F unless otherwise noted. Dental hygiene students are also required to participate in one or more off-campus day and weeklong community outreach programs. (See pp. 10-11.)

Sophomore Year

Fall Semester

- DH 2111 Dental Anatomy (2)
- DH 2121 The Dental Hygiene Care Process: Clinical Application I (5)
- DH 2132 Head and Neck Anatomy (1)
- BioC 1001 Elementary Biochemistry (3)
- MicB 4001 Microorganisms and Disease (2)

Spring Semester

- DH 2211 Oral Histology and Embryology (2)
- DH 2212 Dental Hygienist-Patient Relationship (1)
- DH 2221 Periodontology (3)
- DH 2222 The Dental Hygiene Care Process: Clinical Application II (3)
- DH 2231 Cariology (2)
- DH 2235 Oral & Maxillofacial Radiology (2)
- Phsl 3051 Human Physiology (4)

May Session

- DH 2235 Oral and Maxillofacial Radiology (0)

Junior Year

Fall Semester

- DH 3111 Biomaterials for the Dental Hygienist (3)
- DH 3112 General and Oral Pathology (2)
- DH 3123 The Dental Hygiene Care Process: Clinical Application III (4)
- DH 3126 Oral and Maxillofacial Radiology: Clinic I (0)
- DH 3131 Periodontology I Lecture (1)
- DH 3132 Applied Nutrition in Dental Hygiene Care (2)
- DH 3134 Dental Hygiene Care for Special Needs Patients: I (2)
- DH 3135 Oral and Maxillofacial Radiology: Theory, Principles and Radiographic Analysis (2)
- DH 3133 Pharmacology (2)

Spring Semester

- DH 3221 Local Anesthesia and Pain Control (2)
- DH 3224W The Dental Hygiene Care Process: Clinical Application IV (4)
- DH 3227 Oral and Maxillofacial Radiology: Clinic II (0)
- DH 3231W Research Methods in Dental Hygiene (3)
- DH 3235 Dental Hygiene Care for Special Needs Patients: II (2)
- PubH 3001 Personal and Community Health (2)

Senior Year

Fall Semester

- DH 4125W The Dental Hygiene Care Process: Clinical Application V (4)
- DH 4128 Oral and Maxillofacial Radiology: Clinic III (3)
- DH 4131 Epidemiology, Prevention, Dental Public Health, and Community Outreach (3)
- DH 4132W Ethics, Jurisprudence, and Principles of Practice (2)
- DH 4137 Patient Management IV (PCG) (1)

Spring Semester

- DH 4226 The Dental Hygiene Care Process: Clinical Application VI (5)
- DH 4229 Oral and Maxillofacial Radiology Clinic: Clinic IV (3)
- DH 4231 Periodontology III Lecture (1)
- DH 4232 Community Outreach (1)
- DH 4233 Legislative, Social, Economic, and Practice Factors in Oral Health (2)
- DH 4238 Patient Management IV (PCG) (1)

The Division of Dental Hygiene retains the right to revise, add and/or delete any course or requirement. Students will complete requirements in effect at the time they enter/re-enter the program.

Student Support Program

The Division of Dental Hygiene monitors academic performance and provides tutoring and consultation as necessary. Counseling and advising are available through the Division, the University Counseling and Consulting Service and faculty.



The Bachelor of Science degree expands your career options. That's what sets us apart from a three-year program.

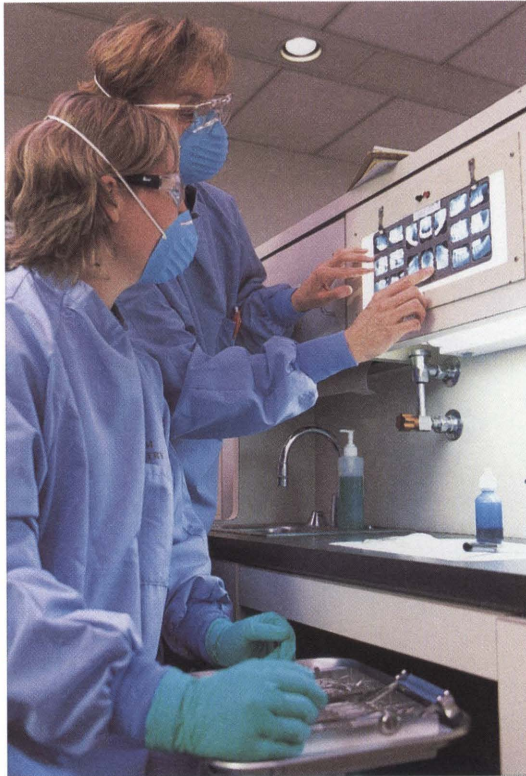
All states require licensure of dental hygienists.

1951

In 1953, School dean initiated the first university-based dental assistant program in the U.S. It was discontinued in 1982 under pressure of budget reductions.



The program blends a solid dental hygiene education with the biological, behavioral and social sciences, and the liberal arts.



Scholarships and Awards

The following awards are presented to dental hygiene students during the annual Honors Day and Senior Recognition Reception programs.

Louise C. Ball Scholarship: For selected juniors and seniors who are in good academic standing and have established financial need.

Gordon & Marie Hackborn Scholarship: For a selected sophomore in good academic standing who has had a personal or professional challenge while pursuing his/her academic goals in dental hygiene.

Ione M. Jackson Scholarship: Established to honor a former University of Minnesota program director, the scholarship is awarded to a qualified senior who wishes to become a dental hygiene educator.

Shirley Burgen Lichtwardt Memorial Scholarship: For selected juniors and seniors who are in good academic standing and have established financial need.

School of Dentistry Alumni Society Scholarship: For selected juniors and seniors who exhibit scholarship and leadership.

Sigma Phi Alpha Eta Chapter Membership: National Dental Hygiene Honor Society established to recognize and honor excellence in scholarship, service, and character among graduating dental hygiene students. A maximum of 10 percent of each graduating class is selected for membership.

Sigma Phi Alpha Award: Awarded to the sophomore, junior and senior who maintains the highest GPA.

Procter & Gamble Excellence in Dental Hygiene Award: Awarded to a selected junior who exhibits scholarship, leadership, service and contribution to the dental hygiene profession.

Naomi Rhode Dental Hygienist-Patient Relationship Award: Awarded to a selected senior who exhibits the most interest and skill in the dental hygienist-patient relationship.

Faculty and students launch a community-based oral cancer detection program.



Graduation Requirements

The bachelor's degree will be recommended for students who earn a minimum GPA of 2.00 and have completed all required work and credits specified by the curriculum.

Students with a minimum GPA of 3.75 in upper division courses are granted a degree with distinction. Students with a minimum GPA of 3.90 in upper division courses are granted a degree with high distinction.

Licensure

Dental hygienists practice in accordance with the requirements of individual state dental practice acts. Successful completion of a written National Board Dental Hygiene Examination and a clinical examination are required for licensure in Minnesota. Both examinations are administered on the University's Minneapolis campus. Many states require continuing education for license renewal.

Liberal Education Requirements

The following requirements apply to undergraduate students enrolling at the Twin Cities campus.

The Diversified Core Curriculum

Physical and Biological Sciences: At least 8 credits including 1 course with lab or field experience in the physical sciences and 1 course with a lab or field experience in the biological sciences.

Social Sciences/Humanities: A minimum of at least 15 credits distributed as follows:

- at least 6 credits in the social sciences,
- at least 3 credits in historical perspectives, and
- at least 6 credits in the arts and humanities, including 1 course in literature and 1 course in other humanities.

Mathematical Thinking: A minimum of 1 course totaling at least 3 credits.

Designated Themes: At least 3 credits in each of the following: cultural diversity, international perspectives, environment, and citizenship and public ethics.

Writing Intensive: New freshmen must complete 1-2 first-year writing courses, depending on their college of registration, and 4 writing intensive courses. Two of the writing intensive courses must be taken at the upper division level, one of which should be taken in the student's major. See the writing intensive web site <http://cisw.cla.umn.edu>. Transfer students should complete the upper division writing requirement for their college. See an academic adviser if you have questions about the requirements.

Minnesota Transfer Curriculum: Students who have completed the Minnesota Transfer Curriculum at any participating Minnesota college or university fulfill the University's Twin Cities campus liberal education requirements. However, students still need to complete a portion of the writing requirements. For more information on transferring credits, contact the University of Minnesota Office of Admissions at 612-625-2008 or go to admissions.tc.umn.edu.



You work together, study together, learn together and build lifelong friendships.

Cleft Palate Clinic moves to School of Dentistry from Sister Kenny Institute.

1965

The clinic provides diagnostic and comprehensive treatment-planning services for people with repaired cleft lip and palate and other maxillofacial anomalies.



Doctor of Dental Surgery

The School of Dentistry is located in the health sciences complex on the University of Minnesota's Minneapolis campus.

*Office of Enrollment Management
15-106 Malcolm Moos Health Sciences Tower
515 Delaware St. S.E.
Minneapolis, MN 55455
612-625-7149 (call collect)
612-624-2120 (fax)
email: ddsapply@umn.edu
www.umn.edu/dental*

The Doctor of Dental Surgery (D.D.S.) degree carries with it the full authority of the University of Minnesota School of Dentistry. The D.D.S. is a broad degree that prepares graduates to practice in all disciplines of the dental profession: dental public health, endodontics, oral and maxillofacial pathology, oral and maxillofacial surgery, orthodontics, pediatric dentistry, periodontics, prosthodontics, and oral and maxillofacial radiology.

Admission

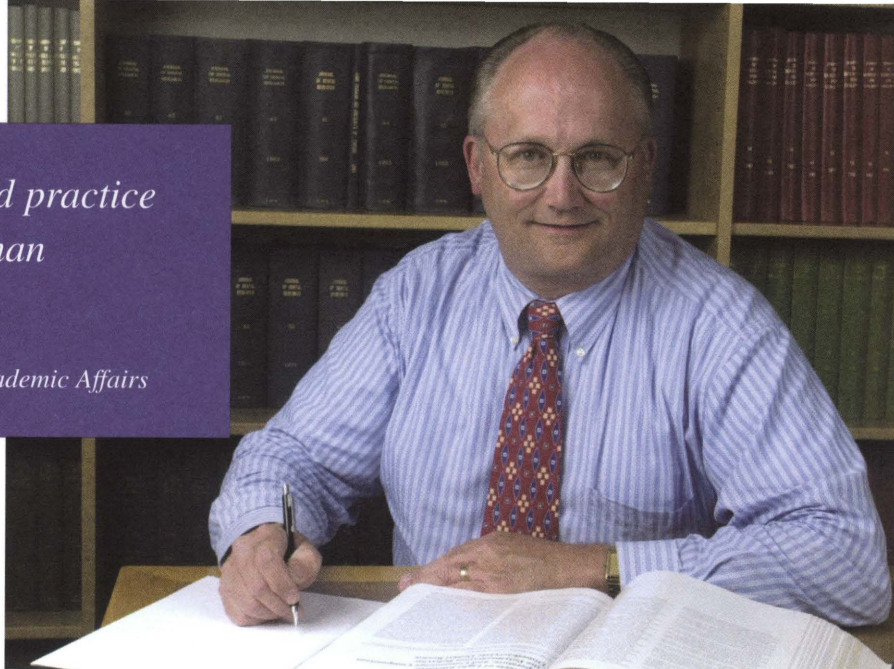
A first-year class is admitted each fall.

General requirements: Applicants should have a sound academic and broad liberal arts college education. High school students are encouraged to take preparatory courses in mathematics, chemistry, physics, biology, foreign languages, English and social studies.

Preference for admission is given to Minnesota residents, Wisconsin residents, and to residents of neighboring states and provinces with which the University of Minnesota has contract, reciprocity or special tuition arrangements. These include Manitoba, Montana, North Dakota, and South Dakota. However, all competitive applicants are considered for admission and resident tuition may be offered to high ability students. For more information, contact the Office of Enrollment Management.

"You'll get more clinic time and practice management experience here than anywhere else."

*Dr. Tom Larson
Associate Dean, Academic Affairs*



Tuition and Fees

For information about tuition, fees and estimated expenses, go to the School's web site at www.umn.edu/dental or see the estimated total expense information provided by the Office of Enrollment Management. The School provides all dental instruments and supplies. Students pay a usage fee.

Course and Credit Requirements

At least 87 semester credits or 130 quarter credits of liberal arts courses from an accredited U.S. or Canadian college or university are required. A maximum of 64 semester credits from community or junior colleges will be accepted (one semester credit equals 1½ quarter credits).

Required courses should be completed by the end of spring term for entry the following fall and should include the following minimum requirements:

- English – 8 semester credits. Two composition and one speech course preferred; or one composition course, one speech course, and one additional course in either literature or humanities with a composition component.
- General Biology or Zoology – 8 semester credits. General zoology alone is acceptable but not preferred.
- Physics – 8 semester credits. Complete course series required.
- General Principles of Chemistry – 8 semester credits. Complete course series required.

- Organic Chemistry – 8 semester credits. Course content must include study of both the aliphatic and aromatic series. One-semester courses generally do not have sufficient depth to be acceptable.
- Biochemistry – 3 semester credits. Course must show organic chemistry as a prerequisite. Survey courses generally do not have sufficient depth to be acceptable.
- Math – 3 semester credits in one of the following: college algebra, pre-calculus, computer science or statistics.
- Applied Human Psychology – 3 semester credits in general human psychology, child and adolescent human psychology or business psychology.

Sciences must include both lecture and lab instruction. Courses in biology, chemistry and physics may be considered outdated if taken more than five years before the time of application.

Although 87 semester credits are required, the majority of first-year dental students complete four or more years of college.

"We're selective when we admit students. Our reputation for excellence begins with you, our future dentist."

*Gale Shea
Director, Enrollment
Management*

Students start free dental clinic at Union Gospel Mission in St. Paul.



1970

In the same year, the Instructional Media Resource Center was formed to teach students how to make "verbal presentations and interrelate better with patients, office personnel and community representatives."

Evaluation of foreign coursework: The School will consider foreign coursework from an accredited college or university if supplied with official or certified transcripts, mark sheets and degree statements from all institutions attended. Foreign applicants must also complete at least 30 semester credits (or 45 quarter credits) from an accredited U.S. or Canadian



“Doing” dentistry is the best way to learn. First-year students work on typodonts (models) and advanced students treat actual patients under faculty supervision.

college or university. Credits must include prerequisite courses or required upper division science courses. English courses taken from a foreign college or university usually do not fulfill the School’s English requirement for admission.

Grade point average (GPA): High school credentials are not reviewed. College grade point averages (overall, required courses and science) are evaluated. The Admissions Committee looks for consistency and improvement over time. The quality of coursework and the challenge per term are also considered. An overall GPA of 2.50 is the minimum required for admission. However, acceptance is competitive and a higher GPA is usually necessary.

Recommended elective college courses and experiences: Electives should reflect a broad, liberal arts education. Competitive applicants will also take some combination of the following electives: art, cell biology, histology, human anatomy, microbiology, genetics, immunology, and physiology. These electives are especially important for applicants who have completed only the minimum credits required for admittance.

Additional courses can be chosen from among those required for a bachelor’s degree and/or those of interest to the student, such as courses in sciences, humanities, social sciences and/or business.

Applicants are also expected to provide evidence of an interest in dentistry and relevant experiences. This might include observation of or participation in patient care and lab procedures in dental offices, discussions with dental professionals, activities involving fine manual dexterity, knowledge of health fields, and service to people on a one-to-one basis.

Early admission: Applicants must have completed at least one year of college, including science coursework. Students interested in the early admission program must meet with the School’s Enrollment Management staff during or after their sophomore year to evaluate qualifications and plan remaining coursework. At that time, provisional acceptance may be granted. For more information, contact the Office of Enrollment Management.

To be eligible for early admission, applicants must:

- Maintain an overall GPA of 3.20 and complete 100 semester/150 quarter credits before enrollment;
- Maintain a science GPA of 3.00;

Groundbreaking ceremony for new Moos Tower where School relocates in 1976.



- Maintain at least a 3.00 GPA in each semester/quarter;
- Earn satisfactory grades in at least two of the following electives: anatomy, cell biology, histology, microbiology, and physiology. Applicants are also urged to take “Mastering Skills for College Success” or other similar courses offered to enhance preparation for dental school.
- Participate in a formal acceptance interview with Office of Enrollment Management staff;
- Tour the School of Dentistry on specified tour days or Careers Day;
- Submit all application materials to the School by September 1 of the year preceding entrance;
- Take the Dental Admission Test (DAT) and submit scores to the School no later than September 1 of the year preceding entrance;
- Observe at least 30 hours in a private dental practice. A general dental practice is preferred; additional observation in a specialty practice is optional.

DAT entrance tests: Applicants must take the Dental Admission Test (DAT) prepared by the American Dental Association. This standardized exam consists of subtests in biology, general chemistry, organic chemistry, reading comprehension, quantitative reasoning, and perceptual ability. Applicants should score at or above the national average.

The DAT is administered by computer at Sylvan Technology Centers throughout the U.S. and in some foreign countries. Many students take the DAT immediately after completing the required biology, general chemistry, and organic chemistry courses. Applicants must submit DAT scores by December 1 for entry the following fall. Application forms and information describing the test, testing centers, registration, and study materials are available at www.ada.org/prof. Applicants are encouraged to study test preparation materials.

Technical Standards

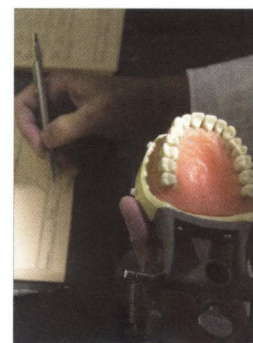
The School of Dentistry is mindful of the unique nature of the dental curriculum. Applicants must possess the skills and abilities that will allow them to successfully complete the course of study and receive the full benefit of the education. In the process, the student is required to direct or perform treatment on patients of the University of Minnesota Dental Clinics and its affiliates. This includes the completion of treatment safely and within an acceptable amount of time. With this in mind, students must be able to meet the following technical standards with or without reasonable accommodation:

Motor Skills

General: Candidates and students must have sufficient motor functions to execute movements reasonably required to provide general care and treatment to patients within an acceptable amount of time.

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

Specific: A candidate must be able to perform basic life support (including CPR), transfer and position disabled patients, physically restrain adults who lack motor control, and position and reposition self around patients. A candidate must be able to operate controls utilizing fine movements, operate high or low speed dental instruments within less than one millimeter, and utilize hand instruments (including scalpels for surgical procedures).

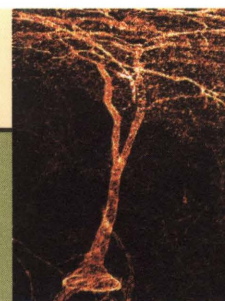


It takes time and practice to learn how to prepare a tooth for restoration. You're evaluated on 32 criteria, including smoothness, contours and margins.

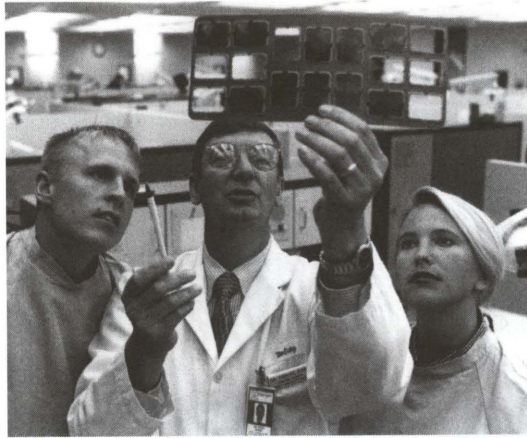
School starts first interdisciplinary craniofacial pain clinic in the U.S.

1980

You know what pain feels like. This is what pain looks like. Figure shows a neuron firing in response to a pain stimulus.



You cannot be healthy without oral health. Oral disease affects our ability to eat, the foods we choose, how we look and the way we communicate. It affects our ability to work at home, at school and on the job.



Sensory/Observation

General: A candidate 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 candidate must be able to acquire information from written documents and to visualize information presented in images from paper, films, slides, video and computer. A candidate must be able to interpret radiographs (x-rays) and other graphic images, with or without the use of assistive devices. A candidate must have functional use of visual, auditory and somatic sensation while being enhanced by the functional use of sensory modalities.

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

Specific: A candidate must be able to perform visual and tactile dental examinations and treatment, including use of visual acuity, accommodation, and vision to discern the differences and variations in color, shape and general appearance between normal and abnormal, soft and hard tissues. Use of tactile senses may be by direct palpation or indirect through

instrumentation. A candidate must also possess the visual acuity to read charts, records, small print and handwritten notation, and distinguish variations in colors intra and extra orally.

Communication

General: A candidate must be able to communicate effectively and sensitively with patients and/or guardian; 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. For effective patient treatment, the candidate must be able to communicate effectively and efficiently with all members of the health care team, orally and in writing.

Specific: A candidate must have sufficient facility with English to retrieve information from literature, computerized data bases and lectures, to communicate concepts on written exams and patient charts; elicit patient backgrounds; describe patient changes in moods, activity and posture; and coordinate patient care with all members of the health care team.

Cognitive

General: A candidate must be able to measure, calculate, reason, analyze, integrate, and synthesize.

Specific: A candidate must be able to comprehend three-dimensional relationships and to understand the spatial relationships of structures. Problem solving, a critical skill demanded of a dentist, requires all of these intellectual abilities. A candidate must be able to perform these problem-solving skills in a timely fashion for effective patient treatment.

Behavioral

General: A candidate must possess the emotional health required for full utilization of his or her intellectual abilities, the exercise of good judgment, maintenance of patient confidentiality, 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.

School creates nation's first training program in geriatric dentistry.



Specific: A candidate recognizes the curriculum is physically, mentally and emotionally taxing. He/she must be able to tolerate demanding workloads, to include functioning effectively under stress, adapting to changing environments, displaying flexibility and learning to function in the face of uncertainties inherent in the clinical problems of patients. Compassion, integrity, concern for others, interpersonal skills, interest and motivation are all personal qualities that will be assessed during the admission and educational processes. A candidate must also 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 candidate must reasonably be expected to accept criticism and respond by appropriate modification of behavior.

The skills and abilities described above are required to successfully complete the School's competencies needed for graduation. These competencies are specified online at www.umn.edu/dental.

English Proficiency Requirement

Every applicant who is not a native English speaker must submit an official score report from either a Test of English as a Foreign Language (TOEFL) or a Michigan English Language Assessment Battery (MELAB). The test must have been administered within the last two years of the date of application to the School. Required scores are:

TOEFL: Total score – 240
 Part 1 (Oral Comprehension) – 21
 Test of Written English – 5

MELAB: Total Score – 85
 Part II (Listening) – 85

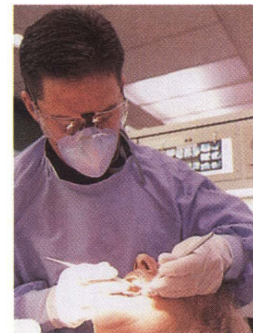
See p. 31 for registration information.

Application Process

Every applicant (including reapplicants) must apply through the Associated American Dental

Schools Application Services (AADSAS), a national agency that coordinates dental application services. AADSAS applications are available at www.adea.org.

- Candidates must complete an AADSAS application form, and submit 1) An official transcript from each college or university attended; and 2) Three letters of recommendation from employers, peers, college teachers, and/or friends familiar with the applicant and the applicant's work within the last four years.
- Submit completed application materials directly to AADSAS between June 1 and January 1 (applicants are urged to complete and submit all application materials by September 1). AADSAS will forward copies of application materials to the School of Dentistry.
- Upon receipt of materials from AADSAS, the School will mail each qualified applicant a University of Minnesota School of Dentistry supplemental application (available online at www.umn.edu/dental) to complete and return by February 1 with the following:
 - (1) A personal statement documenting the candidate's orientation to dentistry (i.e., observation and/or participation in patient care, work in dental labs, participation in dental related research, etc.) and other interests/ achievements;
 - (2) A \$55 application processing fee;
 - (3) Test results: DAT scores; TOEFL or MELAB scores (if required).
- For initial screening, the School's Admissions Committee will accept copies of all transcripts submitted to AADSAS. (Transcripts must identify exemptions or advanced courses with fewer credits, which will be individually evaluated.) Grades for required courses based



Third and fourth-year students provide comprehensive care in School of Dentistry clinics.

Spearheaded by a student, School receives grant to teach students how to communicate and treat people who are hearing impaired.

In 1986, students and faculty launched Jamaica Mission.





The demands before, during and after dental school are many, but the rewards will be even greater.

on a satisfactory/no-credit system are rarely accepted. Applicants may submit a maximum percentage of 'S' credits in elective courses as follows: 10 percent of the minimum total credits for three-year students, 15 percent of the minimum total credits for four-year students.

- If admitted to the School, applicants must submit an official transcript from each academic institution attended. More than one incomplete or withdrawal per academic year must be explained in the application. Applicants with foreign coursework must submit an official transcript, along with a certified translation, prior to further consideration. (See p. 20.)
- The School's Admissions Committee only reviews completed applications.

Personal interview: A personal interview is required. Applicants tour the School's state-of-the-art facilities, observe students treating patients and meet with School representatives. Invitations for visits are extended upon receipt and initial review of applications. For more information, contact the Office of Enrollment Management.

For current information on *Criteria for DDS Admission*, go to www.umn.edu/dental.

Acceptance and alternate letters are mailed beginning December 1 until the class is filled and all applications are reviewed.

Information for Accepted Applicants

Immunizations: Minnesota law requires that students born after 1956 submit an Immunization Record form. The form, provided by the Office of Enrollment Management, must be returned in order for students to register for classes.

Students must provide evidence of a Hepatitis B vaccination or sign a waiver of vaccination form. Contact the Associate Dean, Clinical Systems in 8-426 Moos Tower (612-624-2128) for a waiver form. For more information, go to www.bhs.umn.edu/services.htm.

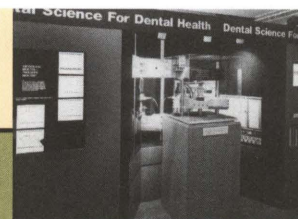
Criminal background check: Minnesota law requires that a person who provides services involving direct contact with patients in health care facilities licensed by the Minnesota Department of Health have a background check conducted by the state. The check covers a wide range of criminal offenses and agency-findings related to maltreatment of children or vulnerable adults. Individuals disqualified from having direct patient contact as a result of the background check may be determined ineligible for a degree in these programs.

Leave of absence policy: A leave of absence, not to exceed one year, may be granted to a student in good standing (not on scholastic probation and with no pending unsatisfactory grades). To apply for a leave of absence, contact the Office of Academic Affairs at 612-625-9945.

Community outreach experiences: Elective extramural clinical experiences of from two to four weeks in length are approved as a formal part of the clinical training program. Although not currently a graduation requirement, participation in extramural programs will be required in the future. (See pp. 10-11.)

Student Affairs Support Program: Student performance is monitored test by test and academic assistance is recommended and provided for those in need. Third- and fourth-year dental students serve as tutors. The Student Affairs Support Program promotes student study groups, a student mentorship program and consultation with faculty.

School receives a \$2.8 million grant from the National Institute of Dental Research to fund periodontal disease research.



Scholarships and Awards

The School awards more than \$40,000 annually in high-ability incentive scholarships to qualified first-year dental students. The School's Admissions Committee reviews qualifications and awards scholarships upon entry into the program. The School also offers many scholarships and awards to current dental students at its annual Honors Day programs. For more information, contact the Office of Enrollment Management.

Evaluation of Student Performance

Student performance is evaluated through written, oral and practical examinations, observation of clinical performance, and course assignments. In addition, students must exercise their clinical responsibilities with discretion and display concern for the dignity and importance of patients. Scholastic committees review each student's grades and course progress at the end of each semester, evaluate achievement and personal conduct, and make recommendations to the Office of Academic Affairs on a student's status and promotion. Students are expected to learn professional behaviors outlined in the student conduct code (see the School's *Student Handbook*) and may be dismissed from school for disciplinary and/or scholastic reasons.

Retention and promotion: A, A-, B+, B, B-, C+, C, C-, D+, D and S are passing grades. F, N, and I are not passing grades. Students who receive "I" grades must arrange to complete the coursework. After one term, "I" grades may be changed to "F" at the discretion of the faculty.

A 2.00 GPA is required for promotion between academic years; a passing grade is required on all prerequisite coursework before students are permitted to begin patient care. For more information on grading policies, go to the

School's web site at www.umn.edu/dental or refer to the *Student Handbook*.

Graduation Requirements

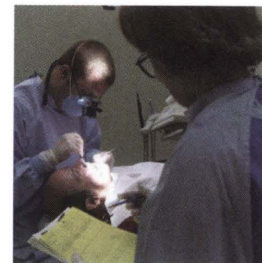
Candidates for the doctor of dental surgery (D.D.S.) degree must have:

- (1) complied with the rules and regulations of the School of Dentistry and the University of Minnesota;
- (2) demonstrated sound moral character;
- (3) received a passing grade in all required courses;
- (4) completed all clinical requirements;
- (5) completed treatment of their clinical patients;
- (6) completed full-time clinic attendance for a minimum of five semesters;
- (7) returned all equipment and supplies assigned for their use;
- (8) earned a minimum GPA of 2.00;
- (9) discharged all financial obligations to the University; and
- (10) been recommended by School of Dentistry faculty for the degree.

Licensure and Placement

Dental licensure requirements vary depending upon where you practice, but there are three common requirements: an educational requirement, a written examination and a clinical examination. Graduation from an accredited dental school fulfills the educational requirement.

Written examinations: All 53 licensing jurisdictions in the U. S. recognize the "National Board Dental Examination" and most graduating dental students elect to take this examination. The National Board written examination is offered on the Minneapolis campus.



There's a way to sit, hold instruments and position yourself around a patient that provides the best field of vision and instrument control, and the greatest dentist and patient comfort.

School alumnus co-develops a prototype sonic toothbrush.

Late 1980s

In 2000, more than seven million Sonicare toothbrushes were sold worldwide.





Our dental students do well on board exams. They go through a round of mock boards to prepare.

Clinical licensure examinations: Although some states offer their own examinations, most states participate in one of four regional boards. Students may take any licensure examination appropriate to the location in which they choose to practice.

Minnesota participates in the Central Regional Dental Testing Service (CRDTS) and graduates seeking licensure in the 11 participating states (Minnesota, Colorado, Illinois, Iowa, Kansas, Missouri, Nebraska, North Dakota, South Dakota, Wisconsin and Wyoming) take this examination. CRDTS offers a clinical board examination each May and August.

In Canada, the National Dental Examining Board of Canada (NDEB) certifies dentists. Certificates are granted to those who:

- (1) Graduate from the undergraduate dental program of a school accredited by the Commission on Dental Accreditation of Canada or the ADA Commission on Dental Accreditation;
- (2) Apply to the board; and
- (3) Successfully complete the NDEB Written and Objective Structured Clinical Examinations (OSCE) within seven years of graduation from an accredited program.

Graduates who do not meet these requirements must successfully complete a two-year qualifying program. For more information, contact the NDEB at 613-236-5912.

Guarantee of Quality

A quality dental education does not end with graduation but continues throughout a lifetime of clinical practice. This program guarantees new graduates the opportunity to enhance their general dentistry skills conveniently and inexpensively.

For up to 18 months after graduation, dentists can take free continuing education courses at the School of Dentistry. Those who prefer more concentrated experiences in general dentistry may apply for admission as a full-time adult special student for up to one academic year at no cost. To audit any lecture or pre-clinical course, call the Office of Academic Affairs.

Reentry Program for Dentists

Dentists who take time out from their professional careers can upgrade their information, clinical or technological skills before returning to practice.

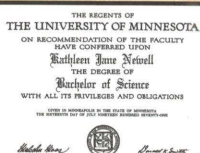
Dentists may enroll as adult special students in selected general dental practice courses. Special general dentistry clinical mentorships can also be arranged as needed. For more information, contact the Office of Enrollment Management.

Curriculum

Semesters run 16 weeks. Fall semester begins after Labor Day; spring semester begins in January. The required summer session runs for 11 weeks.

The curriculum includes: (1) Basic sciences — gross and microscopic human anatomy, human neuroanatomy, biochemistry, microbiology, pharmacology, human physiology, pathology, oral histology and embryology, and genetics; and (2) Dentistry courses — operative dentistry, oral diagnosis, pediatric dentistry, oral surgery, anesthesia, periodontology, roentgenology, biomaterials, fixed and removable prosthodontics; and management and supervision of dental practice, jurisprudence, and ethics. Elective experiences are also available.

Dental hygiene becomes a four-year Bachelor of Science program.



Program in Dentistry (D.D.S.)

First Year: Coursework includes basic science courses on normal human tissues, including the molecular, cellular and organ systems. Technical dental courses, analysis of dental literature, and ethical training applicable to the profession begin during the first year.

<i>Fall Semester</i>		Credits
BioC 6011	Biochemistry for Dental Students	3
InMd 6150	Gross Anatomy for Dental Students	8
Dent 5401	Epidemiology, Preventive Dentistry & Health Care Delivery	3
Dent 5411	Professional Problem Solving	0
Dent 5901	Oral Anatomy I	4
GCD 6103	Human Histology	5
<hr/> Subtotal Credits		<hr/> 23

<i>Spring Semester</i>		
BioC 6012	Biochemistry for Dental Students	2
Nsci 6110	Neuroscience for Dentistry Students	2
Dent 5301	Introduction to Oral Biology	2
Dent 5321	Introduction to Dental Biomaterials	2
Dent 5402	Epidemiology, Preventive Dentistry & Health Care Delivery	2
Dent 5412	Professional Problem Solving	1
Dent 5601	Introduction to Clinical Preventive Dentistry	2
Dent 5902	Preclinical Prosthodontics Technique Lecture I	2
Dent 5903	Preclinical Prosthodontics Technique Lab I	3
Phsl 6501	System Physiology	4
<hr/> Subtotal Credits		<hr/> 22

<i>Summer Session</i>		
Dent 5121	Physical Evaluation I	2
Dent 5315	Oral Histology & Embryology & Medical Genetics	3
Dent 5904	Preclinical Prosthodontics Technique Lecture/Lab II	2
<hr/> Subtotal Credits		<hr/> 7

Second Year: Basic science courses focus on pathology. Technical dental courses culminate in treating patients. Students provide episodic patient care.

<i>Fall Semester</i>		
Dent 5101	Oral and Maxillofacial Radiology	3
Dent 5302	Topics in Dental Biochemistry	2

Dent 5303	Microbiology for Dental Students	6
Dent 5611	Periodontology I Lecture	1
Dent 5801	Operative Dentistry I	2
Dent 5802	Operative Dentistry Laboratory I	3
Dent 5905	Preclinical Prosthodontics Technique Lecture III	3
Dent 5906	Preclinical Prosthodontics Technique Lab III	6
<hr/> Subtotal Credits		<hr/> 26

<i>Spring Semester</i>		
Dent 5102	Patient Management and Radiographic Interpretation	2
Dent 5103	Oral Radiology Preclinical Laboratory	0
Dent 5612	Periodontology Technique	2
Dent 5803	Operative Dentistry II	2
Dent 5804	Operative Dentistry Laboratory II	3
Dent 5907	Preclinical Prosthodontics Technique Lecture IV	3
Dent 5908	Preclinical Prosthodontics Technique Lab IV	6
LaMP 5100	General & Systemic Pathology	4
Phcl 5103	Pharmacology	3
<hr/> Subtotal Credits		<hr/> 25

<i>Summer Session</i>		
Dent 5104	Oral Radiology Preclinical Laboratory	1
Dent 5201	Pain and Anxiety Control	2
Dent 5322	Applied Dental Biomaterials	4
Dent 5441	Patient Management II	3
Dent 5501	Pediatric Dentistry Pre-Clinic	2
Dent 5613	Periodontology Technique II	2
Dent 5701	Introduction to Endodontics Lecture and Laboratory	4
Dent 5805	Operative Dentistry III	3
Dent 5909	Preclinical Prosthodontics Technique Lecture V	2
Dent 5910	Preclinical Prosthodontics Technique Lab V	2
<hr/> Subtotal Credits		<hr/> 25

Third Year: Clinical science courses occupy much of the student's time. Correlations among basic, behavioral and clinical sciences are established in the clinical setting. Students establish their first dental practice and provide comprehensive patient care.

<i>Fall Semester</i>		
Dent 6111	Oral Radiology Clinic	0
Dent 6122	Physical Evaluation II	3

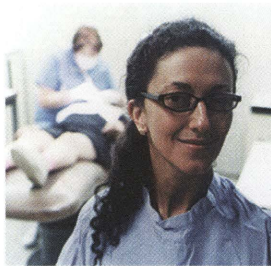


Because every patient is different, it helps to share experiences and confer on difficult cases in Patient Care Groups.

School receives \$2.5 million federal grant to establish Oral Health Clinical Research Center.

Research studies cover infinite subjects ranging from new treatments and trends to alternative dental materials and toothpaste.





Graduate placement rates are exceptional. By mid-May, 2001, 86 percent of dental graduates had secured positions.

Dent 6131	Oral Medicine/Diagnosis Clinic I	1
Dent 6202	Oral Surgery I	1
Dent 6316	Oral and Maxillofacial Pathology	2
Dent 6413	Professional Problem Solving	0
Dent 6431	Patient Management III	1
Dent 6442	Treatment Planning Clinic	1
Dent 6511	Clinical Pediatric Dentistry	0
Dent 6521	Orthodontics I	2
Dent 6621	Periodontology Clinic	2
Dent 6806	Operative Dentistry IV	2
Dent 6811	Operative Dentistry Clinic	4
Dent 6812	Fixed Prosthodontics Clinic I	5
Dent 6921	Removable Prosthodontics Clinic I	5
<hr/>		
Subtotal Credits		29

Spring Semester

Dent 6112	Oral Radiology Clinic	0
Dent 6132	Oral Medicine/Diagnosis Clinic II	1
Dent 6201	Oral Surgery II	1
Dent 6317	Oral and Maxillofacial Pathology	2
Dent 6414	Professional Problem Solving	0
Dent 6421	Management & Supervision of a Dental Practice	3
Dent 6432	Patient Management III	1
Dent 6443	Treatment Planning Clinic	1
Dent 6451	Dental Auxiliary Utilization Clinic (DAU I-II)	0
Dent 6512	Clinical Pediatric Dentistry	0
Dent 6522	Orthodontics II	2
Dent 6613	Periodontology III Lecture	1
Dent 6622	Periodontology Clinic	0
Dent 6812	Operative Dentistry Clinic	4
Dent 6911	Prosthodontics I	2
Dent 6913	Fixed Prosthodontics Clinic II	5
Dent 6922	Removable Prosthodontics Clinic II	5
<hr/>		
Subtotal Credits		28

Summer Session

Dent 6113	Oral Radiology Clinic	2
Dent 6133	Oral Medicine/Diagnosis Clinic III	1
Dent 6205	Role of Dentistry in the Hospital Setting	1
Dent 6221	Oral and Maxillofacial Surgery Clinic Rotation	2
Dent 6323	Oral Biology: Fundamental and Applied	2
Dent 6401	Patient Care: Special Issues	2
Dent 6422	Current Legal Issues for the New Dentist	2

Dent 6433	Patient Management III	1
Dent 6444	Treatment Planning Clinic	1
Dent 6452	Dental Auxiliary Utilization Clinic (DAU I-II)	0
Dent 6463	Emergency Clinic	0
Dent 6513	Clinical Pediatric Dentistry	0
Dent 6623	Periodontology Clinic	2
Dent 6813	Operative Dentistry Clinic	3
Dent 6919	TMJ Disorders	1
<hr/>		
Subtotal Credits		20

Fourth Year: Clinical science training is completed and the transition from school to practice begins.

Fall Semester

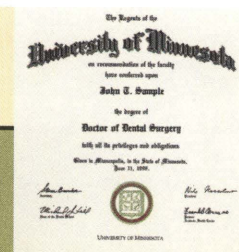
Dent 6222	Oral and Maxillofacial Surgery Clinic Rotation	1
Dent 6231	Hospital Dentistry Rotation	1
Dent 6415	Professional Problem Solving	0
Dent 6434	Patient Management IV	1
Dent 6445	Treatment Planning Clinic	1
Dent 6453	Dental Auxiliary Utilization Clinic (DAU I-II)	0
Dent 6464	Emergency Clinic	0
Dent 6514	Clinical Pediatric Dentistry	0
Dent 6523	Orthodontic Clinic Rotation	0
Dent 6624	Periodontology Clinic	0
Dent 6711	Endodontics Clinic	2
Dent 6814	Operative Dentistry Clinic	4
Dent 6914	Fixed Prosthodontics Clinic III	5
Dent 6923	Removable Prosthodontics Clinic III	3
<hr/>		
Subtotal Credits		18

Spring Semester

Dent 6223	Oral and Maxillofacial Surgery Clinic Rotation	1
Dent 6232	Hospital Dentistry Rotation	1
Dent 6416	Professional Problem Solving	1
Dent 6435	Patient Management IV	1
Dent 6453	Dental Auxiliary Utilization Clinic (DAU I-II)	2
Dent 6465	Emergency Clinic	2
Dent 6515	Clinical Pediatric Dentistry	5
Dent 6524	Orthodontic Clinic Rotation	1
Dent 6625	Periodontology Clinic	4
Dent 6712	Endodontics Clinic	2
Dent 6815	Operative Dentistry Clinic	4
Dent 6915	Fixed Prosthodontics Clinic IV	5
Dent 6924	Removable Prosthodontics Clinic IV	3
<hr/>		
Subtotal Credits		32

School implements "Guarantee of Quality" program.

Minnesota was the first dental school in the country to "warranty" its education.



The University of Minnesota and the Twin Cities



Minneapolis Campus

With its four campuses, the University of Minnesota is one of the nation's most comprehensive public institutions of higher learning.

University of Minnesota, Twin Cities Campus

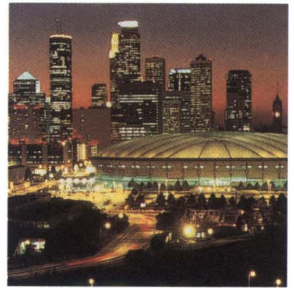
A classic Big Ten campus in the heart of the Minneapolis-St. Paul metropolitan area, the Minneapolis campus provides a world-class setting for lifelong learning. The largest of the four campuses, it is made up of 20 colleges offering undergraduate, graduate and professional degrees. The Mississippi River divides the campus into the East Bank — where the School of Dentistry and the Academic Health Center are located — and the West Bank. Adjacent neighborhoods cater to student interests and downtown Minneapolis and St. Paul are only minutes away.

The Twin Cities Area

With more than 2.5 million residents, the Twin Cities provides every educational and cultural advantage of a major metropolitan area. From an urban sculpture garden to the Mall of America, the Twin Cities is rich in entertainment and cultural events and offers something for everyone — a nationally recognized arts and theater community, a thriving entertainment industry, a host of Fortune 500 companies, exciting professional sports teams and shopping and restaurants for every taste. City neighborhoods feature unique shops and ethnic restaurants. The Mississippi River and numerous city lakes and parks provide year-round opportunities for outdoor recreation. Quality of life studies consistently rank the Twin Cities among the top metropolitan areas in the country.



St. Paul

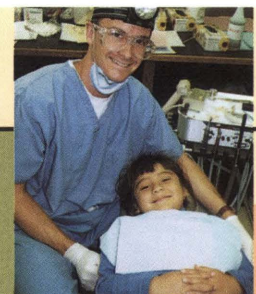


Minneapolis

School of Dentistry launches Migrant program.

1996

Using portable dental units, dental and dental hygiene students provide preventive and restorative care to children of migrant workers.



Quick Facts

School of Dentistry

In the 2000-01 academic year, 638 students applied for 86 positions in the first-year class of dental students. Of those admitted, 55 were Minnesota residents; the average GPA was 3.52, the academic average on the DAT was 18.82, and the mean perceptual-motor ability score was 18.24. Eighty-five percent had completed four or more years of college.

In the 2000-01 academic year, 62 students applied for 36 positions in the first-year class of dental hygiene students. Of those admitted, 30 were Minnesota residents; the average GPA was 3.01.

In Spring 2001, the School of Dentistry graduated 82 dentists; 39 percent were women. The School also graduated 34 dental hygienists.

The School's dental and dental hygiene students consistently perform in the top 20 percent on national board exams.

Placement rates for the School's dental and dental hygiene graduates are exceptional. By mid-May 2001, 86 percent of dental graduates and 100 percent of dental hygiene graduates had secured positions in their professions.

The School annually awards more than \$40,000 in high-ability incentive scholarships to qualified first-year dental students and \$10,650 to dental hygiene students.

University of Minnesota Mission Statement

The University of Minnesota, founded in the belief that all people are enriched by understanding, is dedicated to the advancement of learning and the search for truth; to the sharing of this knowledge through education for a diverse community; and to the application of this knowledge to benefit the people of the state, the nation and the world.

The University's mission, carried out on multiple campuses and throughout the state, is threefold:

Research and Discovery: Generate and preserve knowledge, understanding and creativity by conducting high-quality research, scholarship and artistic activity that benefit students, scholars, and communities across the state, the nation and the world.

Teaching and Learning: Share that knowledge, understanding and creativity by providing a broad range of educational programs in a strong and diverse community of learners and teachers, and prepare graduate, professional and undergraduate students, as well as non-degree-seeking students interested in continuing education and lifelong learning, for active roles in a multiracial and multicultural world.

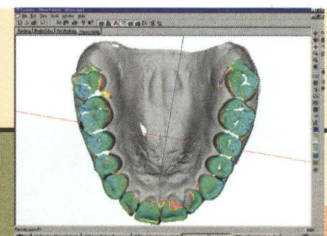
Outreach and Public Service: Extend, apply and exchange knowledge between the University and society by applying scholarly expertise to community problems, by helping organizations and individuals respond to their changing environments, and by making the knowledge and resources created and preserved at the University accessible to the citizens of the state, the nation and the world.

In all of its activities, the University strives to sustain an open exchange of ideas in an environment that embodies the values of academic freedom, responsibility, integrity and cooperation; that provides an atmosphere of mutual respect, free from racism, sexism and other forms of prejudice and intolerance; that assists individuals, institutions and communities in responding to a continuously changing world; that is conscious of and responsive to the needs of the many communities it is committed to serving; that creates and supports partnerships within the University, with other educational systems and institutions and with communities to achieve common goals; and that inspires, sets high expectations for, and empowers the individuals within its community.

Dental offices rank third in start-up businesses most likely to survive, according to the most recent survey of nearly 1.5 billion companies reported in Inc. magazine.

Among dentists out of dental school fewer than four years, 42 percent own their own practice; by six years after graduation, this figure increases to 53 percent.

School faculty develops 3D Virtual Dental Patient.



In the same year, a School professor received international Premio Phoenix Verdi Award in Genetics.

Resource Guide

School of Dentistry

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www.umn.edu/dental

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612-625-9121
newel001@umn.edu

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Diagnostic/Surgical Sciences
6-320 Moos Tower
612-625-3652

Oral Sciences
17-252 Moos Tower
612-625-6464

Preventive Sciences
15-136 Moos Tower
612-626-0158

Restorative Sciences
9-176 Moos Tower
612-625-5650

Student Services

Academic Assistance

15-106 Moos Tower
612-625-7149
shea001@umn.edu

Advanced Education Programs

15-136 Moos Tower
612-624-7934
wegne009@umn.edu

Affirmative Action/Equal Opportunity

15-106 Moos Tower
612-626-0627
johns016@umn.edu

Continuing Dental Education

6-406 Moos Tower
612-625-1418
cdeumn@umn.edu

Financial Aid

2-693 Moos Tower
612-624-1665
r-berg@umn.edu

Placement

15-106 Moos Tower
612-625-0171
ddapply@umn.edu

Campus Resources

www.umn.edu

University Admissions

240 Williamson Hall
612-625-2008

Boynton Health Service

410 Church Street S.E.
Minneapolis, MN 55455
612-625-8400

Counseling Office

109 Eddy Hall
612-624-3323

Disability Services

230 McNamara Center
612-624-4037

Housing and Residential Life

Comstock Hall - East
612-624-2994

Parking and Transportation Services

300 Transportation & Safety
Building
612-626-PARK

Student Employment

170 Donhowe Building
612-624-3548

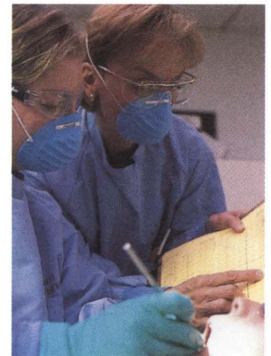
TOEFL Registration

Contact the agency that handles TOEFL registration in your country or www.toefl.org to schedule a test.

MELAB Registration

In the Twin Cities area, contact:
Minnesota English Center
University of Minnesota
315 Pillsbury Hall
Minneapolis, MN 55455
612-624-1503

Outside the Twin Cities area, contact:
English Language Institute
Testing & Certification
University of Michigan
734-764-2416



According to a 2000 Gallup Poll, dentists ranked among the top six professionals on ethics and honesty.

School researcher links bacteria in dental plaque to heart disease.

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**Pertains to dental hygiene*



Tests are usually about the information in your brain. In dental school, you're also tested on how well you get your fingers and hands to move to that information.

The Center for Contemporary Dentistry opens.



In the same year, the School received a \$5.1 million research grant to study temporomandibular joint disorders.

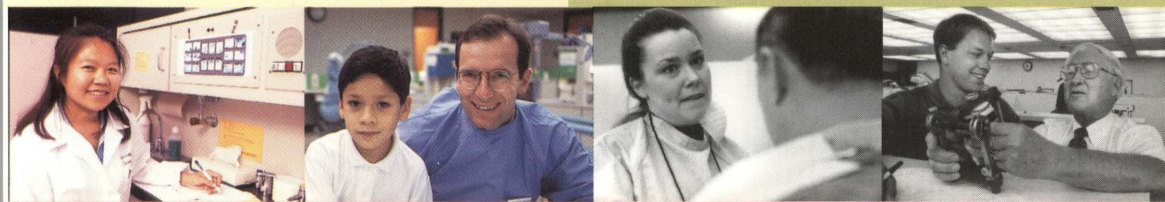
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