

**U**NIVERSITY OF **M**INNESOTA

**SCHOOL OF DENTISTRY  
DIVISION OF DENTAL HYGIENE**

**BACHELOR OF SCIENCE IN DENTAL HYGIENE  
INFORMATION GUIDE  
2022-2023**



## UNIVERSITY OF MINNESOTA

### **Program in Dental Hygiene School of Dentistry**

#### **The Profession**

Dental hygiene today is an exciting profession with opportunities for employment and professional growth. It is a career that is socially significant, professionally challenging, and personally rewarding.

Dental hygienists are licensed healthcare professionals who are skilled in preventing oral diseases such as dental caries (cavities), periodontal (gum) disease and oral cancer, through assessment, treatment and patient education. Dental hygienists also play a role in improving patients' overall health. The dental hygienist is a clinician, an educator, a researcher, a change agent, a consumer advocate, and a manager. A dental hygienist with a baccalaureate degree is prepared to assume roles in many different health care environments such as general and specialty practices, public schools, community health clinics, insurance companies, dental hygiene educational programs, extended care facilities, hospitals, correctional facilities, and in the health products industry. More information on career opportunities can be found on the [American Dental Hygienists' Career Center website](#).

## Minnesota Dental Hygiene Scope of Practice

**Duties under general supervision.** A dental hygienist may perform the following procedures that do not require the presence of the dentist in the office or on the premises at the time the procedures are being performed but require the procedures be performed with the prior knowledge and consent of the dentist.

- preliminary charting of the oral cavity and surrounding structures, including case histories; initial and periodic examinations and assessments to determine periodontal status; and creation of a dental hygiene treatment plan in coordination with a dentist's treatment plan;
- obtain informed consent, according to part 3100.9600, subpart 9, for treatments authorized by the supervising dentist pursuant to the dental hygienist's scope of practice;
- take photographs extraorally or intraorally;
- take vital signs, including pulse rate and blood pressure;
- make referrals to dentists, physicians, and other practitioners in consultation with a dentist;
- complete debridement, prophylaxis, and nonsurgical periodontal therapy;
- etch enamel surfaces, application and adjustment of pit and fissure sealants;
- administer local anesthesia. Before administering local anesthesia, a dental hygienist must have successfully completed a didactic and clinical program sponsored by a dental or dental hygiene school accredited by the Commission on Dental Accreditation, resulting in the dental hygienist becoming clinically competent in the administration of local anesthesia;
- administer nitrous oxide inhalation analgesia according to part 3100.3600, subparts 4 and 5;
- take radiographs;
- apply topical medications, including topical fluoride, bleaching agents, cavity varnishes, and desensitizing agents;
- place subgingival medicaments;
- take impressions and bite registration;
- fabrication and delivery of custom fitted trays;
- nutritional counseling;
- salivary analysis;
- remove marginal overhangs;
- remove sutures;
- place and remove periodontal dressings;
- place and remove isolation devices or materials for restorative purposes;
- polish restorations;
- remove excess cement from inlays, crowns, bridges, or orthodontic appliances;
- fabrication, placement, replacement, cementation, and adjustment of temporary crowns or restorations;
- remove temporary crowns or restorations with hand instruments only;
- place and remove matrix systems and wedges; and
- place nonsurgical retraction material for gingival displacement. Before placing nonsurgical retraction material, a dental hygienist must have successfully completed a course in nonsurgical retraction material for gingival displacement at a dental, dental hygiene, or dental assisting school accredited by the Commission on Dental Accreditation.

**Duties under indirect supervision.** A dental hygienist may perform restorative procedures as permitted under Minnesota Statutes, section 150A.10, subdivision 4, if a dentist is in the office, authorized the procedures, and remains in the office while the procedures are being performed.

**Duties under direct supervision.** A dental hygienist may perform certain procedures if a dentist is in the office, personally diagnoses the condition to be treated, personally authorizes the procedures, and evaluates the performance of the dental hygienist before dismissing the patient.

**Orthodontic procedures under general, indirect, or direct supervision.**

If a dental hygienist has fulfilled the requirements of item A, subitems (1), (2), or (3), the dental hygienist may perform the procedures listed in item B under the level of supervision indicated, as defined in part 3100.0100, subpart 21, items B, C, and D.

A. A dental hygienist must have:

- (1) been granted a Minnesota dental hygiene license from the board prior to September 1, 2019;
- (2) successfully graduated from a Minnesota dental hygiene program accredited by the Commission on Dental Accreditation after September 1, 2019, that included training for orthodontic procedures and received an orthodontic procedures certificate from the program; or
- (3) successfully completed a board-approved course comprised of orthodontic procedures and received an orthodontic procedures certificate from the course sponsor.

B. The dental hygienist may perform the following procedures under:

(1) general supervision:

- cut arch wires on orthodontic appliances;
- remove loose bands on orthodontic appliances;
- remove loose brackets on orthodontic appliances;
- remove excess bond material from orthodontic appliances;
- preselect orthodontic bands;
- place and remove elastic orthodontic separators;
- remove and place ligature ties and remove and replace existing arch wires on orthodontic appliances; and
- deliver vacuum-formed orthodontic retainers;

(2) indirect supervision:

- place initial arch wires on orthodontic appliances. A dentist must select and, if necessary, adjust arch wires prior to placement;

(3) direct supervision:

- etch enamel surfaces before bonding of orthodontic appliances by a dentist;
- remove bond material from teeth with rotary instruments after removal of orthodontic appliances;
- attach prefit and preadjusted orthodontic appliances; and
- remove fixed orthodontic bands and brackets.

## **Sedation monitoring and intravenous procedures under indirect, direct, or personal supervision.**

If a dental hygienist has successfully completed board-approved allied dental personnel courses comprised of intravenous access and general anesthesia and moderate sedation training and submitted to the board documentation of completion to receive a certificate from the board, the dental hygienist may perform the following procedures under either indirect, direct, or personal supervision, as defined in part [3100.0100](#), subpart 21, items A, B, and C, for a dentist who holds a valid general anesthesia or moderate sedation certificate:

(1) indirect supervision:

- maintain and remove intravenous lines;
- monitor a patient during preoperative, intraoperative, and postoperative phases of general anesthesia or moderate sedation using noninvasive instrumentation, including pulse oximeters, electrocardiograms, blood pressures monitors, and capnography;

(2) direct supervision: initiate and place an intravenous line in preparation for intravenous medications and sedation;

(3) personal supervision: aid in the physical management of medications, including the preparation and administration of medications into an existing intravenous line.

## The Program

The University of Minnesota dental hygiene program is recognized as one of the outstanding programs in the country. Here, the curriculum blends a solid dental hygiene clinical education with the biological, behavioral, and social sciences as well as the liberal arts.

The dental hygiene program was established at the University of Minnesota in 1919 and is fully accredited by the American Dental Association Commission on Dental Accreditation. It is the only program in Minnesota that offers a Bachelor of Science degree in dental hygiene that is affiliated with a school of dentistry and a major academic health center.

The University of Minnesota began a new accelerated dental hygiene program in the fall of 2006, which allows students to earn their Bachelor of Science degree in three years, rather than completing the traditional four-year program. Students complete one year of pre-requisite college courses and six consecutive semesters of professional courses. The year-round program allows maximum opportunities for those who are eager to start their dental hygiene careers or further their education in graduate school.

To become a dental hygienist, you must complete a minimum of one year of pre-requisite coursework in anatomy, physiology, biology, chemistry, composition, psychology, sociology, statistics, and other liberal arts education courses. This is followed by two years of professional coursework in the basic sciences and dental sciences. The professional program also includes courses in preclinical and clinical dental hygiene; communication skills; patient assessment; cariology and periodontology; oral radiology; pharmacology; local anesthesia and pain control; research methods; pediatric and geriatric dentistry. A wide range of theoretical and clinical experiences in treating traditional and special-needs patients is provided. Our simulation clinic and laboratory provide state-of-the-art education for both dental hygiene, dental therapy and dental students. Students also participate in a number of service-learning experiences at community-based clinics, which serve diverse populations. A minimum of eight weeks of academic service-learning rotations at School of Dentistry Outreach clinics is required for graduation.

In 2008, the School of Dentistry, Division of Dental Hygiene began a **Master of Science in Dental Hygiene** program. The Master of Science in Dental Hygiene program prepares leaders in the profession for careers in academia, the healthcare industry and research.

Courses in the **management track** provide students with the knowledge and skills necessary for positions in the healthcare industry such as sales representatives, managers of marketing and professional relations divisions; managers of large dental clinics; practice management consulting; and entrepreneurship.

Courses in **the dental hygiene education track** provide students with the knowledge and skills to teach didactic, clinic, and laboratory courses in dental hygiene programs, conduct research, and assume administrative positions. This track is offered online.

## Licensure

Upon receipt of the Bachelor of Science degree in Dental Hygiene, you must obtain a license for the state in which you wish to practice by successfully completing a state/regional practical examination, as well as the National Dental Hygiene Board Examination. You will then practice in accordance with the requirements of individual state practice acts. Minnesota requires a specified number of hours of continuing education to maintain licensure. More information can be found on the Minnesota Board of Dentistry [website](#). **The University of Minnesota Bachelor of Science in Dental Hygiene program trains students for Minnesota licensure.** Other states *may* have educational requirements not included in this program.

## Career Prospects

Excellent and varied career opportunities exist for you. The entry-level salary for dental hygienists in Minnesota compares favorably with that of other healthcare professions.

## The University

The University of Minnesota is a major research institution and the state's land-grant university. It comprises four campuses throughout the state, the Twin Cities being the largest. Students who come to the University choose from nationally recognized programs taught by the finest faculty available. There are five libraries on campus and teaching and research facilities are state-of-the-art. The academic health center offers the optimal setting for pursuing a career in the field of healthcare.

## Contact Information

Office of Admissions, School of Dentistry  
15-163 Moos Tower  
515 Delaware Street S.E.  
Minneapolis, MN 55455  
612-625-7477

Email general admissions questions to: [dhapply@umn.edu](mailto:dhapply@umn.edu)  
or Morgan McClellan at: [mcclella@umn.edu](mailto:mcclella@umn.edu)  
School of Dentistry website: <http://www.dentistry.umn.edu/>

***The University of Minnesota is an equal opportunity educator and employer.***

This publication is available in alternate forms on request.  
Please call the Office of Admissions at (612) 625- 7477.

**DIVISION OF DENTAL HYGIENE  
SCHOOL OF DENTISTRY  
UNIVERSITY OF MINNESOTA**

**DIVISION GOALS**

- Goal I: To prepare highly qualified dental hygiene healthcare professionals.
- Goal II: To provide a competency-based educational program.
- Goal III: To provide patient-centered, comprehensive, evidence-based dental hygiene care.
- Goal IV: To provide advanced education opportunities for graduate dental hygienists.
- Goal V: To provide continuing education experiences/courses for graduate dental hygienists.
- Goal VI: To conduct/participate in research that contributes to the dental hygiene body of knowledge.
- Goal VII: To prepare graduates who provide culturally competent care.
- Goal VIII: To provide students with opportunities for academic service learning and oral health promotion in the community.
- Goal IX: To prepare graduates for roles as leaders, organizers and advocates in the dental hygiene profession.



**UNIVERSITY OF MINNESOTA  
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## **ADMISSION REQUIREMENTS**

### **HIGH SCHOOL COURSE PREPARATION**

For the Twin Cities, Morris, and Rochester campuses, the minimum academic requirements must include:

1. **ENGLISH** - Four years, including writing, literature, and speech. Within the writing component, students may elect work in composition, creative writing, journalism, or research writing. Literature may include both American and world literatures; speech may include both public speaking and debate.
2. **MATHEMATICS**
  - a. For students seeking admission before fall 2015: Three years consisting of two years of algebra, one of which must be intermediate or advanced algebra, and one year of geometry.
  - b. For student seeking admission fall 2015 and thereafter: Four years, including two years of algebra, one of which must be intermediate or advanced algebra, and one year of geometry.
3. **SCIENCE** - Three years, including at least one course each in the biological and physical sciences, and all three units to incorporate significant laboratory experience. The biological and physical science requirements would most commonly be met by courses in biology, chemistry, and physics. Other courses could include advanced biology, human anatomy and physiology, botany, zoology, geology, and advanced chemistry and physics.
4. **SOCIAL STUDIES** - Three years, including one year each of geography and American history. Geography need not always be taught as a full year course, and may in fact be incorporated in a significant way into other studies; transcripts should indicate specifically which courses meet the geography requirement.
5. **WORLD LANGUAGE** - Two years of a single second language. Language courses may include both those traditionally taught in high schools (for example, Spanish, French, German), as well as those less frequently taught.
6. **ARTS** - One year in the visual or performing arts. It is expected that all arts courses (including band and chorus) will include instruction in the history and critical interpretation of the art form. Courses in the arts should offer students the opportunity to experience the arts directly as creators/performers and as critical, informed observers.

All High School preparation requirements must be completed **prior to entry** into the Dental Hygiene program.

## GPA REQUIREMENTS

Applicants must have a minimum 2.8 cumulative GPA, a minimum 2.5 pre-requisite and science GPA, and a minimum of a C grade in any individual pre-requisite course to be considered for admission. Acceptance is based on evaluation of primary and secondary admission characteristics.

## PRE-PROFESSIONAL REQUIRED COURSES

The following University of Minnesota courses, or their equivalents at other accredited institutions, must be completed **prior** to entry into the professional dental hygiene program (by August 15 of year of entry into the professional program). All pre-requisite courses must be taken on an **A-F grading system**. Use the following information in conjunction with the Admission Requirement Information also included in this packet. **Biology and Chemistry must be taken within five years of entry into the program and one or the other must be completed prior to application so grades are on the transcript submitted at the time of application. Applicants must have a minimum 2.8 cumulative GPA, a minimum 2.5 pre-requisite and science GPA, and a minimum of a C grade in any individual pre-requisite course to be considered for admission.**

## ANATOMY

ANAT 3001 Human Anatomy, 3 cr. **OR** ANAT 3601 Principles of Human Anatomy, 3 cr. **OR** ANAT 3611 Principles of Human Anatomy, 3 cr. **OR** KIN 3027

ANAT 3001 Human Anatomy, 3 cr  
Survey of human anatomy with some clinical and functional correlations. **(Fulfills liberal education requirement)**

ANAT 3601 Principles of Human Anatomy, 3 cr.  
Anatomical relationships. Function based upon form. Clinical applications. Gross (macroscopic) anatomy, histology (microscopic anatomy). Neuroanatomy (nervous system), embryology (developmental anatomy). **(Fulfills liberal education requirement).**

ANAT 3611 Principles of Human Anatomy, 3 cr.  
Anatomical relationships. Function based upon form. Clinical applications. Gross (macroscopic) anatomy, histology (microscopic anatomy). Neuroanatomy (nervous system), embryology (developmental anatomy). This course is identical to ANAT 3601. **(Fulfills liberal education requirement).**

KIN 3027 Human Anatomy for Kinesiology Students 4 cr.  
**(Approved for Dental Hygiene Freshman Guarantee Program Students)**

Introduction to human anatomy with two 50-min lectures and one 100-min lab per week. The lecture series is organized around an organ systems approach and currently follows the text of Marieb et al., 8th. Edition. The lectures are divided into 3 major sections: musculoskeletal, cardiopulmonary and renal, and neuro-endocrine and digestive. Within each major section, anatomic description proceeds from the microscopic, or cellular level, to the key features of tissues that aggregate into organ anatomy (bottom up). **(Fulfills liberal education requirement).**

## **BIOLOGY**

BIOL 1009 General Biology, 4 cr.  
**(Course must include a laboratory)**

Introduction to major concepts of modern biology. Topics include molecular structure of living things, energy recruitment and utilization, flow of genetic information through organisms and populations, principles of inheritance, ecology, and evolution.  
**(Fulfills liberal education requirement).**

## **CHEMISTRY**

CHEM 1015 Introductory Chemistry (3 cr) and 1017 (1 cr) **OR** CHEM 1061 Chemical Principles I (PHYS) (3 cr) and 1065 (1 cr). **Lab Required.**

CHEM 1015 Introductory Chemistry  
 Matter/energy, atoms, compounds, solutions, chemical reactions, mole/chemical calculations, gases, liquids, solids, chemical bonding, atomic/molecular structure, acids, bases, equilibria. Physical/chemical properties Matter/energy, atoms, compounds, solutions, chemical reactions, mole/chemical calculations, gases, liquids, solids, chemical bonding, atomic/molecular structure, acids, bases, equilibria. Physical/chemical properties of hydrocarbons and organic compounds. Problem solving.  
**(Fulfills liberal education requirement).**

CHEM 1061  
 Atomic theory, periodic properties of element. Thermochemistry, reaction stoichiometry. Behavior of gases, liquids, and solids. Molecular/ionic structure/bonding. Organic chemistry and polymers. Energy sources, environmental issues related to energy use.  
**(Fulfills liberal education requirement).**

## **COMPOSITION**

WRIT 1301 University Writing, 4 cr.  
 Drafting, revising, editing. Academic genres. Critical reading, rhetorical analysis for principles of audience, purpose, and argumentative strategies. Emphasizes electronic print library. Critical Analysis, annotated bibliography, research paper.  
**(Fulfills liberal education requirement).**

**PHYSIOLOGY**

PHSL 3051 Human Physiology, 4 cr **OR** KIN 3385

PHSL 3051 How major organ systems function (nerve, muscle, circulation, respiration, endocrine, renal, gastrointestinal, temperature regulation and energy metabolism). Three one-hour lectures, two-hour lab. **(Fulfills liberal education requirement)**.

KIN 3385 Human Physiology, 4 cr.

**(Approved for Dental Hygiene Freshman Guarantee Program Students)**

Functional/integrative approach organized by level of description, from molecular genetics to dynamic movement/clinical conditions. Cellular mechanisms for major physiological functions. Exercise, fitness, health, growth. **(Fulfills liberal education requirement)**

prereq: [KIN 3027 or ANAT 3001 or ANAT 3601 or ANAT 3611], KIN major] or instructor consent.

**PSYCHOLOGY**

PSY 1001 Introduction to Psychology, 4 cr.;

PSY 1001 Introduction to Psychology.

Scientific study of human behavior. Problems, methods and findings of modern psychology to beginning students.

**(Fulfills liberal education requirement)**.

**SOCIOLOGY**

SOC 1001 Introduction to Sociology, 4 cr.

SOC 1001 Introduction to Sociology

Scientific study of human societies/ behavior. Major theories, methods, concepts, and research findings. Examination of the characteristics of the basic social units, their patterns of interrelation, and processes of change. **(Fulfills liberal education requirement)**.

**STATISTICS**

STAT 1001 Introduction to the Ideas of Statistics (MATH) 4 cr **OR**  
EPSY 3264 Basic and Applied Statistics (MATH) 3.0

STAT 1001 Introduction to the Ideas of Statistics (MATH)

Graphical/numerical presentations of data. Judging the usefulness/reliability of results/inferences from surveys and other studies to interesting populations. Coping with randomness/variation in an uncertain world. **(Fulfills liberal education requirement)**.

EPSY 3264 Basic and Applied Statistics (MATH)

Introductory statistics. Emphasizes understanding/applying statistical concepts/procedures. Visual/quantitative methods for presenting/analyzing data, common descriptive indices for univariate/bivariate data. Inferential techniques. **(Fulfills liberal education requirement)**.

## ADMISSION CRITERIA

All applicants are considered for admission based on individual review of their credentials using the following primary and secondary review factors:

### Primary Factors:

Because academic preparation is key to student success in college, the strongest consideration in the decision is given to student's academic preparation, or primary review factors.

- Coursework through high school graduation. (Admitted students typically exceed the University's high school requirements. [See course requirements](#))
- Grades in academic coursework
- Class rank/Grade point average
- Interview

### Secondary Factors:

Individual circumstances listed below are also considered as part of the overall assessment of each application. Enrolling a diverse student body—with students bringing differing experiences, talents, and perspectives to their scholarly community—is essential to achieving the development outcomes of a University of Minnesota education.

Our University community is strengthened by our students representing different races, economic backgrounds, geographic origins, genders, religions, ethnicities, sexualities, talents, and beliefs.

Our holistic review takes into consideration the individual circumstances that make each individual student unique. We consider the following secondary factors in our decision review.

- Outstanding talent, achievement, or aptitude in a particular area
- An exceptionally rigorous academic curriculum (enrollment in [honors](#), [AP](#), [IB](#), or college-level courses)
- Strong commitment to community service and leadership
- Military service
- Contribution to the cultural, gender, age, economic, racial, or geographic diversity of the student body
- Evidence of having overcome social, economic, or physical barriers to educational achievement
- First-generation college student
- Significant responsibility in a family, community, job, or activity

- Family employment or attendance at the University of Minnesota
- Personal or extenuating circumstances
- Information received in open-ended questions

## PSEO

Per University policy, students must have completed at least one semester of college before being admitted to a health program. Therefore, students will not be admitted directly after high school even though a student completed all dental hygiene pre-requisite courses via PSEO.

## DIVERSITY STATEMENT

University of Minnesota Program in Dental Hygiene Diversity Policy for Admissions

The Program in Dental Hygiene seeks to foster a diverse student body of thought, interest, background, and intellect. Diversity enhances the educational experience of all students and better prepares our graduates to practice dental hygiene in today's world. In evaluating an applicant's potential contribution to diversity, the Admissions Committee considers the following factors:

- geographic diversity
- first generation college student
- personal or family adversity
- psychomotor ability
- gender (males are underrepresented in the dental hygiene profession)
- racial and ethnic diversity
- documented disability
- disadvantaged educational background
- evidence of leadership
- unique work or service experience

The Dental Hygiene Admissions Committee ensures that all qualified applicants receive individualized consideration within the admissions process. ENGLISH PROFICIENCY REQUIREMENT

The Division of Dental Hygiene requires all applicants who are non-native speakers to submit a TOEFL (Internet based) score of at least **94**. The TOEFL must have been administered within **two years** prior to the date of application to the program. Verification of score(s) **must** be received by the Program in Dental Hygiene **application deadline mid-January, 2023.**

You may be exempt from this requirement if:

- You have lived in the United States for eight or more years.
- You have successfully completed 26 or more transferable semester credits at a two- or four-year post-secondary institution in the United States and have completed the full freshman English requirement at that school with a grade of C or better; or

- You have successfully completed 60 or more transferable semester credits at a two- or four-year post-secondary institution in the United States.

## UNIVERSITY IMMUNIZATION POLICY STATEMENT

Learners from these programs must comply with all University of Minnesota Academic Health Sciences immunization requirements (<https://boynton.umn.edu/ahs>) as well as annual influenza vaccination. Learners are required to obtain and provide documentation for all necessary vaccinations and immunizations. Failure to remain in compliance with these requirements will result in removal from training sites and other program-specific consequences as outlined by the individual schools/program. These additional consequences may include but are not limited to holds on registration or delays in program progression.

Required student immunizations and vaccinations comply with Minnesota State law and Occupational Safety and Health Administration regulations. Students may be expected to have other requirements by individual schools. Upon admission to all Academic Health Center programs, students will be sent a form to complete (signature of health care provider required) attesting to compliance with the following immunizations and vaccinations. Learners must complete the following vaccination requirements prior to their program start date and maintain compliance through the length of the program:

1. Tuberculin Skin Test (TST) 2-Step Required Once. Document two TST's applied at least one week apart but no more than 30 days apart. If both are negative, annual TST required thereafter. Note 1: TST may not be placed within 28 days of a live vaccination, such as MMR, to be considered valid. Note 2: Must have baseline 2-step TST prior to annual TSTs.
  - a. Evidence of tuberculosis test, or in the case of a positive TB test, results of a normal chest x-ray dated after the TB test, completed within six months prior to program start date.
  - b. Annual Tuberculosis Testing. TST must be performed within the last 12 months OR Annual IGRA will meet requirements. IGRA (T-Spot or QuantiFeron Gold) required annually. If you've received BCG then an IGRA is recommended.
  - c. For positive TST or positive IGRA obtain a chest x-ray. For positive TST and a negative IGRA you must do annual IGRA. No chest x-ray required.
2. Measles, Mumps, Rubella (MMR). Document two doses after 12 months of age (minimum of 4 weeks between dose 1 and dose 2) OR a positive titer for each.
  - a. Measles (rubeola), mumps and rubella (two doses), or positive titre; *(University requirement)*
3. Tetanus/Diphtheria/Pertussis (Tdap). Document one dose received July 2005 or later.
  - a. Diphtheria/Tetanus (Td) dose in the last ten (10) years; *(University requirement)*
  - b. Pertussis later than 2005;
  - c. After 1 dose of Tdap, Td is required every 10 years thereafter.
4. Varicella (Chicken Pox). Document two doses of vaccine OR a positive titer OR

positive diagnosis of disease date.

- a. Chicken pox (varicella) series, documented positive history, or positive titre;
5. Hepatitis B. Document three doses OR positive surface antibody titer. Document if any additional Hep B doses were received AND surface antibody titer results. If Hep B surface antibody titer is negative after 6 doses, provide Hep B surface antigen and Hep B core titers. After 6 documented doses, Hep B vaccine and negative Hep B surface antigen and core titers are considered a non-responder to vaccine.
    - a. Hepatitis B series or documented immunity;
  6. COVID-19. All enrolled students at the University of Minnesota are required to show proof of a COVID-19 vaccination or provide documentation for an exemption. Students will be asked to provide the type and date of their COVID-19 vaccination, or to provide documentation for a medical or religious exemption. General information about this requirement is available at the [Safe Campus/Get the Vax 2.0 webpage](#). Additional answers to your questions regarding the new requirement are available on the [COVID-19 Vaccination Requirement for Students- FAQ](#).

The annual immunization compliance requirements include:

- Annual influenza vaccination, to be completed by November 1 each year
- Annual Tuberculosis Testing. TST must be performed within the last 12 months OR Annual IGRA will meet requirements. IGRA (T-Spot or QuantiFeron Gold) required annually. If you've received BCG then an IGRA is recommended.

Exceptions will be made when there is a shortage of vaccines. Learners will be required to comply once vaccine supply levels allow for vaccination.

## **Procedure**

1. **Communication with the learners about the Academic Health Sciences immunization requirements.** The school/program is responsible for communicating the immunization requirements to learners prior to matriculation and directing learners to use the Boynton Health Services (BHS) procedures and forms (<https://z.umn.edu/ahs-imm>) to complete immunization and vaccination requirements. *Note: Students on the Duluth campus pay fees that give them access to the UMD Student Health Clinic and therefore should make arrangements to receive their immunizations at that site rather than at Boynton Health Services in the Twin Cities.*
2. **Boynton Health Services review of immunization form.** BHS will review the form submitted by the student for completeness, enter all accurate immunization data into the BHS student health record, and calculate compliance for the learner. *Note: All student health records are kept at Boynton Health Services, including students matriculated on the Duluth campus.*
3. **If the learner is compliant with all requirements,**
  - a. BHS will send an email to the learner that communicates full compliance.



- i. The learner is expected to review the student/learner portal regularly to ensure he/she remains in compliance.
  - b. If the learner is not compliant with all requirements, BHS will send an email to the learner that communicates non-compliance and directs them to the student/learner portal.
    - i. The learner must then access the portal to review status and determine the issue that is causing them to be non-compliant. ii. The learner must communicate with BHS to complete all outstanding immunization requirements.
  - c. If the learner completed all of the stated compliance requirements, but has an immunization that is soon to expire, BHS will send an email to the learner indicating that he/she/they will become out of compliance in 60 days. The learner must then access the BHS student/learner portal to review any upcoming immunization expiration dates and schedule an appointment with his/her/their care provider to update any immunizations that are soon to expire.
4. **Ongoing immunization compliance management.** The annual influenza vaccination compliance requirement should be documented with BHS using the form indicated below.
- a. Annual influenza vaccination: AHS schools/programs are responsible for requesting learners to complete the annual self-report influenza vaccination form and submit proof of vaccination, as specified on the form, by the stated deadline. (<https://z.umn.edu/HSflushot>)

### Resources/Related Policies

Centers for Disease Control and Prevention – General Best Practice Guidelines for Immunization <https://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html>

Boynton Health Services  
<https://boynton.umn.edu>

If you are a student at the University of Minnesota who pays a student service fee, Boynton Health Service provides ambulatory medical care and many other services. However, these required immunizations are NOT covered by student fees, and it is in your interest to secure appropriate documentation rather than repeating immunizations (at a cost of over \$300) or requesting antibody titres on campus. Annual Tuberculosis tests **are** covered by student fees.

If you have a medical exemption to any requirement, it may be documented on the Immunization Record. If you have a conscientious objection, you should contact your school or college. Conscientious objections do not meet the requirement for clearance.

As a future health professional, we know you take the control of infectious disease seriously, and we appreciate in advance your efforts to comply with these policies that are designed to protect you and your patients.

### The Clearance Process

1. Ask the health provider(s) who have your medical records to complete the required Immunization Record. It **MUST** be completed by a provider (defined as an MD, DO,

- RNC, PA, NP, or RN).
2. Mail the form to Boynton Health Service as indicated. Boynton is not responsible for placing or removing registration holds, only for issuing student clearance. Boynton will review your completed form, and it will be part of your medical record.
  3. If you have completed all requirements, you and your school/college will receive confirmation of your clearance, and you will be allowed to enroll in classes and clerkships. If you have not completed all requirements, you will be notified of which requirements are unfulfilled and how to complete them. Your school/college will not be notified of your clearance to enroll until you have completed all requirements and have received confirmation from Boynton.

## **INFECTION CONTROL**

Due to the nature of the clinical and laboratory experiences in the dental hygiene program, students will be participating in a work environment that has the potential of exposure to bloodborne pathogens and diseases via saliva and blood, such as Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) and Human Immunodeficiency Virus (HIV).

The University of Minnesota Dental Hygiene Program maintains strict compliance with local, state and federal infection control procedures for safe practice in the dental hygiene clinic and laboratory to minimize and manage the risk of disease transmission. This protocol is provided in multiple courses throughout the curriculum. Dental hygiene faculty monitor student compliance of these policies to ensure a safe environment for all patients, students, faculty and staff. Students must provide proof of compliance with University of Minnesota, Academic Health Center immunization requirements.

The School of Dentistry Policies and Procedures for bloodborne pathogens and infection control management are available to applicants and patients upon request. For additional information on bloodborne pathogens go to:

<https://www.osha.gov/SLTC/bloodbornepathogens/index.html>

## **HIV AND HBV PREVENTION PROGRAM**

Applicants to the program need to be aware of the following Minnesota Dental Practice Act HIV and HBV Prevention Policy, which will affect those applicants/students who are HIV and/or

HBV positive. The Practice Act stipulates that:

- A licensed dental hygienist who is diagnosed as infected with HIV or HBV must report that information to the Commissioner of Health promptly and as soon as medically necessary for disease control purposes, but no more than 30 days after learning of the diagnosis or 30 days after becoming licensed in the state.
- The Minnesota Board of Dentistry may refuse to grant a license or may impose disciplinary or restrictive action against an HIV/HBV infected dental hygienist who fails to comply with any of the requirements of the Board or with any monitoring or reporting requirement.
- After receiving a report that a regulated person is infected with HIV or HBV, the Board of Dentistry or the Commissioner of Health shall establish a monitoring plan for the

infected dental hygienist. This plan may address the scope of practice of the individual, required submission of reports and other provisions that the Board deems reasonable.

### **Dental Hygiene Students with Infection Due to Blood-Borne Pathogens**

Hepatitis B virus (HBV), hepatitis C virus (HCV) and human immunodeficiency virus (HIV) are the three most common blood-borne pathogens. All three can be transmitted via body contact or exposure to fluids. Experts agree that the risk for transmission of these viruses from infected health care personnel (HCP) to a patient during the provision of routine health care that does not involve invasive procedures is negligible. In instances in which invasive procedures and exposure-prone noninvasive procedures are being conducted,

these risks are still quite small, but are clearly elevated when compared with other routine patient-care activities that do not involve invasive procedures (Henderson, et al, 2010).

This policy relates to dental, dental hygiene, dental therapy students and dental residents who are infected with one or more of the following blood-borne diseases: Hepatitis C Virus and who are antibody positive, (HCV); Hepatitis B Virus and who are surface antigen positive, (HBV); or Human Immunodeficiency Virus (HIV). It is premised on the understanding that the medical, scientific and legal principles of blood-borne infections are still evolving, and that the University of Minnesota School of Dentistry will respond to the challenges presented by these infections with sensitivity, flexibility, and the best current medical, scientific, and legal information available.

### **Status, Accommodations and Testing**

No student or resident shall be denied acceptance into the School of Dentistry or residency programs on the basis of HIV, HBV, or HCV serostatus. Evaluation for admission and continuation in the programs will focus on whether the individual in his or her current state of health, with reasonable accommodations will be able to successfully complete the essential elements of the educational program.

The School of Dentistry will work with the infected student or resident and the University's Disability Resource Center (DRC) to provide reasonable accommodations where needed. An accommodation is not considered reasonable if it alters the fundamental nature or requirements of the educational program, imposes an undue hardship, or fails to eliminate or substantially reduce a direct threat to the health or safety of others.

No student or resident will be mandated to undergo testing for blood-borne pathogens. It is the responsibility of the individual dental, dental hygiene, dental therapy student or dental resident who suspects that he or she may be at risk for HIV, HBV, or HCV infection to ascertain his or her serostatus. Students and residents may contact Boynton Health Clinic at 612-625-3222 to arrange confidential testing. Depending on the requirements of clinical sites, dental, dental hygiene, dental therapy students and dental residents may be required to be immunized against HBV.

### **Reporting and Confidentiality**

Students or residents infected with HCV, HBV, or HIV have a professional responsibility to report their serostatus to a member of the Blood-Borne Infectious Disease Review Panel ("Review Panel") in the School of Dentistry. Consistent with the self-reporting requirements imposed on physicians and other regulated healthcare workers under Minnesota law, Minn. Stat. § 214, this reporting obligation shall be mandatory for students and residents

infected with HIV or HBV. Failure to self-report is basis for disciplinary action by the School of Dentistry.

The clinical sites where students and residents train also may have reporting requirements depending on the procedures and activities to be performed by the student or resident. Students and residents who wish to perform exposure-prone invasive procedures at a clinical site as part of their education and training must comply with all review, disclosure and infection control requirements at that site. Another potential option that may preserve greater confidentiality for the student or resident is to restructure the clinical experience to avoid participation in any exposure-prone procedures. As outlined below, the School of Dentistry Review Panel will work with the affected student or resident and the clinical site(s) to help shape the appropriate educational experience.

Confidentiality of all information about HIV, HBV, or HCV status will be maintained pursuant to state and federal laws. The individuals who will be informed of the student's or resident's serostatus are members of the Review Panel, designated representative(s) of the clinical site to the extent required by the site's policies, and the DRC if the student or resident requests accommodations. Faculty who are providing modifications in the student's or resident's educational program will be informed that the individual has a blood-borne infectious disease, but will not be notified of the particular disease.

### **Review Panel**

The members and the chair of the Review Panel will be appointed by the Dean of the School of Dentistry for staggered terms of three years. There is no limit on the number of terms that may be served. The Review Panel will include a full-time University faculty member with expertise in infectious disease and the Associate Dean for Academic Affairs.

Each individual case will be managed by this panel and Assistant Dean of Student and Resident Affairs in cases affecting dental students or the appropriate Program Director in cases involving dental hygiene, dental therapy students or residents. The ongoing responsibilities of the panel are to:

1. Support the student or resident in receiving satisfactory medical and emotional care and in following treatment recommendations.
2. Ensure that the student or resident is aware of any necessary precautions to be taken in patient care activities to avoid the transmission of the infection to any other person and recommend any modifications in the educational program needed for this purpose.
3. Serve as a liaison with the clinical site(s) to help shape the student's or resident's educational experience.
4. Offer career counseling and specialty selection assistance.
5. Inform the student or resident of possible signs of progress of the disease that might interfere with his or her physical or emotional ability to fulfill patient care or other educational requirements of the School of Dentistry or residency program.
6. Discuss with the student or resident whether he or she may have participated in patient care activities in which an injury to that student or resident would have led to contamination of a patient with the student's or resident's blood.

All modifications must be approved by the Review Panel as a whole.

The School of Dentistry recognizes that it is possible for an individual infected with HCV, HBV, and/or HIV to practice dentistry, and to practice many dental specialties unimpeded by disease specific restrictions. Therefore the school will provide assistance to any student or resident infected with these diseases to complete their School of Dentistry or residency program requirements subject to considerations that it deems in its best judgment are appropriate to the circumstances of each individual case.

### **CPR CERTIFICATION POLICY**

The American Dental Association Commission on Dental Accreditation requires that all students, clinical faculty, and appropriate support staff be able to perform basic life support procedures, including cardiopulmonary resuscitation, and manage other medical emergencies. In compliance with this standard, students, clinical faculty, and appropriate support staff are required to take an American Heart Association Basic Life Support Training Course (level C) (AHA BLS) provided by the University of Minnesota Life Support Program, and scheduled during the first year orientation session.

### **TECHNICAL STANDARDS**

The University of Minnesota School of Dentistry is committed to the policy that all persons shall have equal access to its programs, facilities and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status or sexual orientation.

In adhering to this policy, the University abides by the Americans with Disabilities Act, Section 504 of the Rehabilitation Act of 1973, the Minnesota Human Rights Act and other applicable statutes and regulations relating to equality of opportunity. In this venue, the School of Dentistry encourages all qualified individuals to apply for admission to its Doctor of Dental Surgery (DDS), Dental Therapy (BSDH/MDT) and Dental Hygiene (BSDH) programs.

The University of Minnesota School of Dentistry recognizes that the award of a School of Dentistry degree carries with it the full authority University of Minnesota Board of Regents and communicates to those who might seek the services of the bearer that he or she is competent to practice general dentistry. Each degree is a professional degree, unique in that the graduate is prepared upon licensure to practice each discipline within its scope of practice. This requires that the student in the curriculum acquire didactic knowledge as well as psychomotor skills and the attitudes essential to the profession and agreed upon by the faculty as requisite for the practice of each discipline. To successfully negotiate the curriculum, students must have a level of cognitive aptitude, ethical competency and hand-eye coordination.

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 the 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, the student must be able to meet the following technical standards with or without reasonable accommodations.

## **1. MOTOR SKILLS**

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**GENERAL:** A candidate should have a sufficient level of manual dexterity such that he/she is able to execute the fine movements required to provide general dental care and treatment to patients within a specified amount of time.

**SPECIFIC:** It is required that a candidate possess the manual motor skills necessary to directly perform diagnostic and treatment maneuvers associated with the practice of general dentistry. Such maneuvers require coordination of both gross and fine muscular movements, equilibrium, and functional uses of the senses of touch, hearing and vision.

**SPECIFIC:** A candidate must be able to perform basic life support (including CPR), transfer and position disabled patients, and position and reposition self around patients in various treatment settings. The candidate must be able to operate dental equipment controls utilizing fine hand movements, position and move dental instruments and move in all directions within one millimeter of tolerance. Candidates must be able to work in the proper ergonomic positions appropriate to the delivery of dental treatment for extended times.

## **2. SENSORY/OBSERVATION**

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### **BASIC SCIENCES**

**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, pharmacological demonstrations in animals and microscopic images of microorganisms and human or animal 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 using appropriate enhancement of sensory modalities.(such and microscopes, stethoscopes, etc.)

### **CLINICAL SCIENCES**

**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 general dental treatment or administering medications.

**SPECIFIC:** A candidate must be able to perform visual and tactile dental examinations and treatment including use of visual acuity, with or without accommodation, to discern slight differences and variations in color, shape, and general appearance between normal and abnormal, soft and hard tissues. Use of tactile senses may

be either direct palpation or indirect through instrumentation.

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

### **3. COMMUNICATION**

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**GENERAL:** A candidate must be able to communicate clearly and effectively with a degree of sensitivity with patients, parents and/or guardians; establish good rapport, 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 with patients, parents, guardians and all members of the dental and medical health care team effectively and efficiently and communication must be culturally appropriate. Communication includes oral and written modes.

**SPECIFIC:** A candidate must have sufficient facility with English to retrieve information from literature, computerized data bases and lectures and to communicate concepts on written exams and patient charts. Patients, faculty, students, and staff must be able to easily understand the candidates' oral and written communication in order to effectively evaluate performance and to work collaboratively in the care of patients. Patients must be able to understand the candidate easily to help establish patient rapport, understand what information is requested and needed by the candidate and understand the explanation of treatment procedures, treatment options, informed consent, and follow up or home care.

### **4. COGNITIVE**

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

**SPECIFIC:** A candidate must be able to comprehend and mentally visualize three-dimensional relationships and to understand the spatial relationships of structures. Problem solving and clinical decision making, and critical thinking skills demanded of a general dentist, requires all of these intellectual abilities. A candidate must be able to perform these problem-solving and critical thinking skills in a timely fashion for effective patient treatment.

### **5. BEHAVIORAL**

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**GENERAL:** A candidate must possess the emotional health and maturity 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, faculty, staff and students.

**SPECIFIC:** A candidate must recognize that the curriculum is physically, mentally and emotionally taxing. He or she must be able to tolerate physically and emotionally demanding workloads, function effectively under stress, adapt to changing environments, display flexibility and learn 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. Further, a candidate must be able to manage apprehensive patients with a range of moods and behaviors in a tactful, culturally sensitive, congenial, personal matter so as not to alienate or antagonize them. A candidate must reasonably be expected to accept criticism and respond by appropriate modification of behavior.

#### MINIMUM TECHNICAL STANDARDS FOR MATRICULATION AND GRADUATION STANDARDS

Each degree is a professional degree unique in that the graduate is prepared upon licensure to practice each discipline within its scope of practice. This requires that the student in the curriculum acquire didactic knowledge as well as psychomotor skills and attitudes essential to the profession and agreed upon by the faculty as requisite for the practice of each discipline. The candidate requires both cognitive and technical skills in order to negotiate this curriculum. In the process, a matriculated candidate is required to direct or perform treatment on the patients of the School and its affiliates. The School has the responsibility of insuring the safety of the patients. This includes the rendering of treatment in a safe manner and within a specified amount of time. To that end, the student must be able to meet the *School of Dentistry Minimum Technical Standards for Admissions and Matriculation* with or without reasonable accommodations.

The School of Dentistry's Technical Standards are required to successfully complete the School's competencies needed for graduation. These competencies are available upon request through the Associate Dean of Academic Affairs, University of Minnesota School of Dentistry, 15-238 Moos Tower, 515 Delaware Street SE, Minneapolis, MN 55455.

*Approved by the School of Dentistry DDS Admissions Committee, March, 1, 2018*

## **DENTAL HYGIENE ADVISING**

The School of Dentistry, Office of Admissions and Diversity, provides advising for prospective dental hygiene students. Interested individuals are encouraged to [contact this office](#) for assistance and information.

- Email: [dhapply@umn.edu](mailto:dhapply@umn.edu)
- Phone: (612) 625-7477

### **Information and Advising**

Prospective applicants are strongly encouraged to attend a Program Information Session held monthly at the School of Dentistry. Sessions include information about the program and individual advising. For more details and to reserve your spot, please go to: <https://www.dentistry.umn.edu/degrees-programs/dental-therapy/dual-degree-bsdhmdt> Click on



*DH/DT Information Sessions* on the Dental Hygiene Bachelor of Science Overview webpage for current dates and times. Please call 612-625-7477 or email Chris Held at [cheld@umn.edu](mailto:cheld@umn.edu) with questions about these group sessions.

Prospective applicants who cannot attend a Program Information Session may arrange an informational visit with an adviser prior to the application deadline. Please contact Chris Held at <mailto:cheld@umn.edu> or 612-624-4946 to arrange a visit.

## **Clinical Requirements**

Throughout the dental hygiene clinical curriculum, students are required to fulfill clinic requirements and to take clinical competency exams. These clinical requirements and examinations require the student to have patients that meet specific criteria. ***It is the students' responsibility to find appropriate patients to fulfill these requirements.***

**UNIVERSITY OF MINNESOTA SCHOOL OF DENTISTRY**  
 DIVISION OF DENTAL HYGIENE  
 APPLICATION PROCESS  
 2022-2023

**INSTRUCTIONS:**

Applicants must apply to Dental Hygiene in a two-part process. The steps are outlined on the “How to Apply” page on the School of Dentistry website and here:

PART 1: A Bachelor of Science in Dental Hygiene online application must be completed and submitted to the School of Dentistry/ Dental Hygiene. The form is available at <https://apply.dentistry.umn.edu/apply/>. ALL APPLICANTS MUST COMPLETE THIS FORM FOR CONSIDERATION. This form is separate from any of the University of Minnesota application forms and provides more specific information to the Dental Hygiene Admissions Committee regarding each applicant’s desire to enter the program.

PART 2: Complete ONE of the following forms below, appropriate to your situation. Either form can be found at the following site:  
<https://dentistry.umn.edu/degrees-programs/dental-hygiene/bachelor-science-overview/how-apply>

**For students who have never been enrolled in any campus or college at the University of Minnesota:**

Applicants must submit an “Application for Undergraduate Admission ([transfer from outside of U of M](#))” form

**For current or former University of Minnesota students:**

If you are a current or former University of Minnesota student, applicants must submit an “[Application for Undergraduate Change of College](#)” form.

**The application must be submitted by mid-January 2023 for the fall 2023 entering class. The exact date will be published on the Dental Hygiene webpage. Late applications will not be considered for admission.**

### **OTHER MATERIALS NEEDED**

In addition to the two forms above (the Dental Hygiene application, plus the Transfer Student Application form **OR** the Change of College form), the following materials should also be **submitted to UNIVERSITY ADMISSIONS OFFICE**):

- Official transcripts of **all** completed college coursework
- Official transcripts of **all** high school coursework
- Official TOEFL scores if non-native speaker of English (refer to Admission Criteria for further information), if applicable

Send these materials to:

Office of Admissions:  
[admissions@umn.edu](mailto:admissions@umn.edu)

It is the applicant’s responsibility to assure that all required materials are submitted by the deadline. For questions about the status of your application or to inquire about materials received, call the School of Dentistry Admissions Office at 612-625-7477.

### **NOTIFICATION OF ACCEPTANCE**

Those applicants who are accepted into the Dental Hygiene program will be notified by certified mail on or before **March 15, 2023**.

### **FEES**

To confirm acceptance of admission to the program, a fee of \$150 will be required of all students accepted into the Dental Hygiene program. This fee cannot be waived or deferred and is not refundable.

### **COMMON QUESTIONS**

#### **How many students apply to the program and how many are accepted?**

The applicant pool is approximately 50 applicants for 21 places in the program. The program accepts 21 students each fall.

#### **Is there a minimum GPA requirement for acceptance into the Dental Hygiene Program?**

Applicants must have a minimum of 2.8 cumulative GPA, and a minimum 2.5 prerequisite and science GPA, and a minimum of a C grade in all prerequisite courses to be considered for admission.

However, acceptance is on a competitive basis and higher GPAs are usually necessary to be admitted.

### **Do I need to take the ACT (or SAT) for entrance in Dental Hygiene? I don't need it for other colleges.**

No. The Division of Dental Hygiene no longer requires the ACT or SAT. This policy change follows the University of Minnesota policy change to ensure every student has the opportunity to submit a complete application.

### **Do I have to have all the prerequisites completed before applying?**

No, not ALL courses. However, there are particular courses that **DO** need to be completed for the application. Keep in mind that ALL courses need to be completed prior to entry into the program. All prerequisite courses need to be taken on an A-F grading system and a minimum of a C grade must be achieved to be considered for admission.

Biology **OR** Chemistry must be completed prior to application so that grades are on the transcript submitted at the time of application. Applicants are strongly encouraged to have completed as many of the prerequisite courses as possible. The Admission Committee looks more strongly at a candidate who has completed more (vs. less) prerequisites. To contact an advisor call 612-625- 7477.

### **Do my prerequisites transfer?**

Whether prerequisite courses are taken at the University of Minnesota or any other college, we strongly recommend that you meet with a program advisor BEFORE taking them so that you can be guided toward the appropriate courses to take. In that way, you know that you are taking courses that will transfer as prerequisite courses for our program and/or as liberal education courses required for the University of Minnesota Baccalaureate Degree as well. This is always the BEST approach for planning. To contact an advisor call 612-625- 7477.

If you have already taken courses and want to know if they transfer to the University of Minnesota, you may use to **Transferology**, an interactive website that provides information on how courses transfer to other universities and colleges. <https://www.transferology.com>. Or, you may contact [dhapply@umn.edu](mailto:dhapply@umn.edu) (phone 612-625-7477) who can provide you with that information. If a particular course is not in our database, then further information will need to be submitted by you and a decision will be made on an individual basis.

### **Where should I send my electronic transcripts?**

Send the transcripts to the University of Minnesota Admissions office: [admissions@umn.edu](mailto:admissions@umn.edu)

### **CHECKLIST OF MATERIALS NEEDED BY MID-JANUARY 2023:**

- Dental Hygiene online application form (sent electronically):  
<https://apply.dentistry.umn.edu/apply/>
- Official transcripts of all completed college coursework.
- Official transcripts of all high school coursework
- Official TOEFL scores if non-native speaker of English (refer to Admission Criteria for further information), if applicable
- Appropriate University of Minnesota form: (links to either the Transfer Application Form OR the Change of College Form); forms are found at: <https://dentistry.umn.edu/degrees-programs/dental-hygiene/bachelor-science-overview/how-apply>

## DENTAL HYGIENE CURRICULUM 2022-2023\*\*

### Year One

#### *Fall Semester 2022:*

DH 2111	Dental Anatomy & Histology	3 cr.
DH 2121	Process of Care in Allied Dental Health: Clinical Application I	5 cr.
DH 2132	Head and Neck Anatomy	2 cr.
Bioc 2011	Biochemistry	3 cr.
XXXX	Liberal Education Requirement*	<u>(3 cr.)</u>
		13 cr.

#### *Spring Semester 2023:*

DH 2212	Communication for Oral Health Providers	2 cr.
DH 2221W	Periodontology	3 cr.
DH 2222	Process of Care in Allied Dental Health: Clinical Application II	4 cr.
DH 2225	Microbiology	3 cr.
DH 3151	Oral and Maxillofacial Radiology	2 cr.
DH 3125	General and Oral Pathology	<u>2 cr.</u>
		16 cr.

#### *Summer Semester 2023:*

DH 3121	Local Anesthesia and Pain Management	2 cr.
DH 3123	Process of Care in Allied Dental Health: Clinical Application III	4 cr.
DH 3133	Pharmacology	2 cr.
DH 3134	Pediatric Dentistry	1 cr.
DH 3211	Biomaterials and Principles of Restorative Techniques I	<u>4 cr.</u>
		13 cr.

### Year Two

#### *Fall Semester 2023:*

DH 2231	Cariology and Applied Nutrition in Dental Hygiene Care	3 cr.
DH 3224W	Process of Care in Allied Dental Health: Clinical Application IV	6 cr.
DH 3228	Ethics and Jurisprudence in Allied Dental Health	1 cr.
DH 3234	Oral and Maxillofacial Radiology: Theory, Principles and Radiographic Analysis	1 cr.
DH 3238	Dental Public Health and Academic Service Learning	3 cr.
XXXX	Liberal Education Requirement*	<u>(3 cr.)</u>
		14 cr.

#### *Spring Semester 2024:*

DH 4105	Dental Professional Development	1 cr.
DH 4125W	Process of Care in Allied Dental Health: Clinical Application V	6 cr.
DH 4135W	Research Methods in Allied Dental Health	3 cr.
DH 4136	Periodontology III	1 cr.
DH 4139	Dental Public Health and Academic Service Learning II	<u>2 cr.</u>
		13 cr.

#### *Summer Semester 2024:*

DH 4226	Process of Care in Allied Dental Health: Clinical Application VI	6 cr.
DH 4234	Leadership and Professional Development	2 cr.
	*Liberal Education Requirement (May term)	<u>(3 cr.)</u>
		8 cr.

\*\*Subject to change

# BACHELOR OF SCIENCE DEGREE PROGRAM IN DENTAL HYGIENE

## COURSE DESCRIPTIONS

### **BIOC 2011- Biochemistry for the Agricultural and Health Sciences (3 cr.)**

Survey of organic chemistry and biochemistry outlining structure and metabolism of biomolecules, metabolic regulation, principles of molecular biology.

### **DH 2111 - Dental Anatomy (3 cr.)**

Structural microscopic anatomy of oral hard/soft tissues. All deciduous/permanent teeth, including tooth form, function, and relationship to oral health. Tooth development, calcification, eruption, and exfoliation patterns. Ideal static occlusion, dental terminology, tooth annotation systems. Learning activity includes identification/annotation of teeth, dental histology, embryology, and anatomy.

### **DH 2212 - Communication for Oral Health Providers (2 cr.)**

This course introduces the study of effective communication strategies within the health care team and during patient-provider relationships. There is an emphasis on public speaking basic principles, effective strategies, and ethical approaches. The application of health literacy concepts and behavior change theory as components of evidence-based decision making in a variety of practice settings will be taught.

### **DH 2121 - Process of Care in Allied Dental Health: Clinical Application I (5 cr.)**

Dental hygiene care process, assessment principles related to medical and oral health status, dental hygiene clinical procedures, and development of instrumentation skills.

### **DH 2132 - Head and Neck Anatomy (1 cr.)**

The anatomical structures of head and neck as they relate to the practice of dental hygiene and dental therapy.

### **DH 2225 – Microbiology (3 cr.)**

Encounters with microorganisms are part of everyday life for humans, both as pathogenic and non-pathogenic entities. During this microbiology course students will learn characteristics of microbial life for bacteria, viruses, parasites, and fungi. An emphasis will be placed on microorganisms that are commonly found in the oral cavity. An introduction to the human immune system and its function in regulating infections will be presented. Students will gain an understanding of both commensal microbiota and pathogenic microorganisms, and how their impact on human health. Additionally, students will begin to convey scientific data and research results to non-scientists as a basis for discussing disease prevention, infection management, and treatment plans in a clinical setting.

### **DH 2221W - Periodontology (3 cr.)**

This course introduces periodontal diseases; etiology, assessment, and treatment options. It includes clinical experience in debridement, root planing with ultrasonic and hand instruments.

### **DH 2222 - Process of Care in Allied Dental Health: Clinical Application II (4 cr.)**

In this class you will begin to apply your knowledge of the various preventive products, patient education, assessment data and medical histories to clinical practice. You will develop application skills in fluoride treatments and pit and fissure sealants as well as the evaluation of products used in the treatment of dental caries and periodontal diseases.

This class will also give you an introduction to the School of Dentistry's clinical systems, various medical and emergency conditions affecting patient care and preventive strategies for oral diseases.

**DH 2231 - Cariology and Applied Nutrition in Dental Hygiene Care (3 cr.)**

The study of dental caries etiology, pathology and prevention, and the applied principles of diet and nutrition to dental hygiene patient care with skills in dental dietary counseling. Course content also includes a comprehensive review of CAMBRA. Cariology and Applied Nutrition in Dental Hygiene Care is designed to provide the beginner level dental hygiene student with a knowledge base in cariology and nutrition as it applies to the oral cavity. The implementation of this knowledge is Dental Dietary Counseling with a dental hygiene patient. DH 2231 relies on the communication skills developed in DH 2212.

**DH 3121 - Local Anesthesia and Pain Management (2 cr.)**

Concepts in the administration of local anesthesia, nitrous oxide-oxygen sedation, and other methods of pain management. Anatomy, physiology, pharmacology, patient assessment, indications and contraindications, selection of agents, injection techniques, complications, emergency management, and legal/ethical considerations. Lecture, lab, clinic.

Clinical sessions include actual experience in administering local anesthesia and other methods of pain management. The administration of local anesthesia will be taught to clinical competency. The didactic component of nitrous oxide-oxygen sedation will be completed in this course with clinical experiences occurring in the Faculty Practice Clinic and in subsequent clinical rotations leading to clinical competency in this method of pain management.

**DH 3123 - Process of Care in Allied Dental Health: Clinical Application III (4 cr.)**

Dental hygiene planning for caries prevention and control, non-surgical periodontal therapy and tobacco cessation. Case presentation, ergonomic and clinical experience in dental hygiene patient care.

**DH 3125 - General and Oral Pathology (2 cr.)**

This course covers topics in pathology related to dentistry and the oral cavity. Oral benign/malignant tumors, infectious, inflammatory, and immunologically mediated lesions/diseases are covered.

**DH 3133 - Pharmacology (2 cr.)**

Principles of pharmacology, physical/chemical properties of drugs, modes of administration, therapeutic/adverse effects, drug actions/interactions.

**DH 3134 - Pediatric Dentistry (1 cr.)**

Knowledge, skills and attitudes required for providing dental hygiene care for pediatric patients.

**DH 3151 - Oral and Maxillofacial Radiology (2 cr.)**

General principles of radiology, radiation physics, dosimetry, biology, radiation protection, regulations, recent concepts of imaging, and radiographic anatomy.

**DH 3211 - Biomaterials and Principles of Restorative Techniques I (4 cr.)**

This course is for dental hygiene students to learn theory and “hands on” practice of dental restorative materials. Students will practice the manipulation and placement of the various dental materials in permanent and primary typodont prepared teeth, and they will also learn the selection process and placement of stainless steel crowns on primary typodont teeth.

**DH 3224W - Process of Care in Allied Dental Health: Clinical Application IV**

(6 cr.) Knowledge, skills, and attitudes required for providing dental hygiene care for the medically compromised patient, gerodontic patient, and patient with a disability.

**DH 3228 - Ethics and Jurisprudence in Allied Dental Health (1 cr.)**

Ethical decision making, jurisprudence.

**DH 3234 - Oral and Maxillofacial Radiology: Theory, Principles and Radiographic Analysis (1 cr.)**

Intraoral and extraoral radiographic anatomy. Principles of radiographic interpretation, evaluation of radiographs to identify variation of normal, and dental and maxillofacial diseases.

**DH 3238 - Dental Public Health and Academic Service Learning (3 cr.)**

This course provides an overview of the discipline of public health including epidemiological methods of investigation with an emphasis on patterns of oral diseases. Course content emphasizes designing, implementing, and evaluating oral health promotion and health education programs. Students prepare for community service learning programs.

**DH 4105 - Dental Professional Development (2 cr.)**

Dental Hygiene Course Description Skills to effective practice management and strategic decision-making, promoting mutual trust and respect in all interpersonal interactions, with an emphasis on the roles of a collaborative dental team. Dental Therapy Course Description Interprofessional course. Organizational, managerial, and financial systems that affect successful dental practice.

**DH 4125W - 4125W Process of Care in Allied Dental Health: Clinical Application V (RPJ, WI) (6.0 cr; Prereq-DH student; A-F only, spring, every year)**

Social justice of health/oral health care in U.S. How race/class/gender impact resources. Dental hygiene treatment in diverse patient population.

**DH 4135W - Research Methods in Allied Dental Health (WI)**

(3.0 cr) (Prereq-DH student; A-F only, spring, every year)

Develop skills in the scientific method and critiquing scientific literature. Emphasis is place on evidence-based decision-making, types of research and research design, problem identification and hypothesis development, analyzing individual components of journal articles in relation to research principles, and writing the literature review. Fulfills writing intensive requirement.

**DH 4136 - Periodontology III Lecture (1 cr.)**

This course will provide information regarding the surgical phase of periodontal therapy, including select topics in implantology. The course also emphasizes the evaluation of periodontal treatment, periodontal maintenance care, and the relationship between



periodontics and other disciplines in dentistry. Use of pharmacological agents, periodontal medicine, clinical research and integrating periodontics into the general practice also are covered.

**DH 4139 - Dental Public Health and Academic Service Learning II (1 cr.)**

Academic service learning in various community healthcare settings. The student will apply information from Dental Public Health & Service Learning I and II to assess, plan, implement, and evaluate a dental public health program designed to meet the oral health needs of a priority population.

**DH 4226 - Process of Care in Allied Dental Health: Clinical Application VI (6 cr.)**

Advanced dental hygiene care process in Comprehensive Care Clinics and Service Learning Outreach sites. Development and presentation of the Senior Capstone experiences. The Capstone is a comprehensive oral case presentation and written case report based on a unique patient experience and treatment.

**DH 4234 - Leadership and Professional Development (2 cr.)**

Explore the dental hygienist as leader and manager in healthcare delivery organizations or public health organizations and programs. A study of current issues that influence the practice of dental hygiene including healthcare delivery systems, workforce needs, practice models, regulation, professional associations, state practice acts and the legislation process. Emphasis on leadership and professional development.

## **LIBERAL EDUCATION REQUIREMENTS**

All graduates of the University of Minnesota are required to complete the University Liberal Education Requirements. Students entering the University prior to fall 1999 must meet the requirements in place at the time of entry into the University. Approximately 12 credits may be taken on an S-N grading basis. Applicants are encouraged to complete as many liberal education requirements prior to entry into the Program in Dental Hygiene as possible; remaining requirements must be taken during the dental hygiene curriculum and completed prior to graduation. ***As you will note, some pre-requisite courses fulfill some of the liberal education requirements. See University of Minnesota liberal education requirements website:***

<https://onestop.umn.edu/academics/education-requirements> and courses indicated in parentheses below:

## Diversified Core

- **Physical and Biological Sciences:** A minimum of two courses totaling at least 8 credits, including one course in physical science with a laboratory or field experience, and one course in biological science with a laboratory or field experience. (**Chem 1011; Biol 1009**)
- **Social Science and Humanities:** A minimum of 15 credits distributed as follows:
  - Social Science: at least 8 credits (**Psy 1001; Soc 1001**)
  - Humanities: at least 6 credits, including one course in literature and one course in other humanities. (Philosophy, visual or performing arts, and other humanities or arts).
  - Historical Perspective: at least 3 credits.
- **Mathematical Thinking:** A minimum of one course totaling at least 4 credits. (**Stat 1001**)

## Designated Themes

One course of at least 3 credits in **four** of the five themes: The Environment; Global Perspectives; Race, Power, and Justice in the United States; Civic Life and Ethics; and Technology and Society. (Civic Life and Ethics is fulfilled by Comm 1101; Race, Power, and Justice in the United States is fulfilled by DH4125).

## Writing Intensive

Dental hygiene students need to complete one first year writing course (EngC 1011 or 1013), and four writing intensive courses. Four upper division writing intensive courses are included in the dental hygiene curriculum.

## BACHELOR OF SCIENCE DEGREE PROGRAM IN DENTAL HYGIENE

### SPECIAL LEARNING OPPORTUNITIES

**Community Service Learning Clinics:** Dental hygiene students have the opportunity to participate in academic service-learning at several off-campus Twin Cities and out-state Minnesota clinics providing dental hygiene care for populations who typically do not have sufficient access to dental care. These experiences provide students the opportunity to provide dental hygiene care to diverse populations.

**Continuing Dental Hygiene Education:** Students are encouraged to participate in selected continuing education courses during their senior year on a space available basis. These courses expose seniors to a broad scope of information and technology from a variety of local and national speakers. Students gain by selecting their own educational experiences and interacting with practicing dental hygienists and dentists.

## GENERAL INFORMATION

### Web Site

<http://www.dentistry.umn.edu>

### STATE RECIPROCITY OFFICES

University of Minnesota has reciprocity agreements with: Wisconsin, North Dakota, South Dakota, and Manitoba (see addresses below). The University of Minnesota participates in a reciprocity program with: Kansas, Michigan, Missouri, and Nebraska for students enrolled in a number of undergraduate colleges, including dental hygiene. Please call **612-625-6330** for additional information or call the numbers for specific states listed below.

For more information:

Access: <https://admissions.tc.umn.edu/costsaid/residency.html>

Reciprocity Information

### HOUSING AND Transportation

#### University Housing

<https://admissions.tc.umn.edu/life-minnesotahousing>

#### U of M Student Family Housing

<https://housing.umn.edu/other/student-family>

#### Parking and Transportation Services

300 Transportation & Safety Building

511 Washington Avenue S.E.

Minneapolis, MN 55455-0213

[parking.umn.edu](http://parking.umn.edu)

E-mail: [parking@umn.edu](mailto:parking@umn.edu)

Revised: 5/20/2022

## Dental Hygiene - Estimated Expenses –2022-2023\*

<b><u>Tuition:</u></b>	<b><u>Resident:</u></b>	<b><u>Non-Resident:</u></b>
	\$520.50/credit (up to 12 credits)	\$1,235.50/credit (up to 12 credits)
	\$6,766.00 (13 or more credits)	\$16,061 (13 or more credits)
<b><u>Student Service Fee:</u></b>	\$454.00/semester	\$454.00/semester
<b><u>Equipment &amp; Technology Fee:</u></b>	\$207.00/semester	\$207.00/semester
<b><u>Health Insurance Fee:</u></b>	\$1,272.00/semester	\$1,272.00/semester
(if no insurance coverage)	\$ 612.00/summer	\$ 612.00/summer
<b><u>Instrument Fee:</u></b>	\$861.00/semester	\$861.00/semester
	\$517.00/summer	\$517.00/summer

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### **Textbooks/Manuals:**

(estimated cost)	1 <sup>st</sup> Year:	\$ 1250.00
	2 <sup>nd</sup> Year:	\$ 667.00
	<b>Totals:</b>	<b>\$ 1917.00</b>

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<b><u>Miscellaneous:</u></b>	<b><u>1st semester:</u></b>	<b><u>Board Examination</u></b> (all estimated):
Safety glasses	\$20.00	<del>6<sup>th</sup> Semester</del>
Scrubs	\$80.00	National Board Exam \$ 550.00
Shoes	\$45.00	

### **Regional Board Exam**

CDCA Examination \$ 995.00

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<b><u>Total for 6 Semesters**</u></b>	<b><u>Resident</u></b>	<b><u>Non-Resident</u></b>
Tuition/Fees	\$58,397.00	\$113,291.00
Miscellaneous/Graduation	<u>1,770.00</u>	<u>1,770.00</u>
<b>Totals:</b>	<b>\$60,167.00</b>	<b>\$115,061.00</b>

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\* Subject to change without notice. Living and other incidental expenses not included.

\*\* Living and other incidental expenses not included.