Dental Hygiene

Web Site: http://www.odu.edu/dental

Ann Bruhn, Chair
Tara Newcomb, Chief Departmental Advisor

The Gene W. Hirschfeld School of Dental Hygiene offers programs leading to the degrees of Bachelor of Science in Dental Hygiene (entry level and post-licensure) and Master of Science with a major in dental hygiene. The entry-level dental hygiene program is accredited by the Commission on Dental Accreditation.

Bachelor of Science in Dental Hygiene

Brenda Bradshaw, Entry-Level Program Director

The baccalaureate program in dental hygiene is designed to prepare men and women as professional dental hygienists qualified for positions in a variety of health-care settings and/or for graduate study in dental hygiene. A dental hygienist is a licensed professional and member of the oral health care team who provides services to promote optimal oral health. Dental hygienists serve as clinical practitioners, educators, researchers, administrators, managers, program developers, consultants, and/or dental product sales representatives, depending on the individual's employment setting and educational background. In addition, dental hygienists with a bachelor's degree may pursue careers in elementary and secondary schools, community and public health settings, institutional, entrepreneurial and industrial dental hygiene, professional education, and research.

Students in good academic standing during the last semester of the Bachelor of Science in Dental Hygiene entry-level program may be approved by the School Chair to take the National Board Examination for Dental Hygiene and a regional licensing board examination. A successful outcome on both examinations is required to practice dental hygiene.

The baccalaureate post-licensure curriculum is designed for the licensed dental hygienist who graduated with an associate degree or certificate from an accredited dental hygiene program and would like to pursue a baccalaureate degree in dental hygiene.

The School of Dental Hygiene reserves the right to require remedial work of any student who does not perform at a level satisfactory for patient care. Annually, students are required to submit documentation of a current background check, CPR certification, immunizations and diagnostic procedures. Students are required to complete the School of Dental Hygiene Entrance Health Form and strongly advised to be up to date on all appropriate immunizations to minimize risk of infectious disease due to the nature of clinical care as part of the dental hygiene curriculum. The University maintains liability insurance on the students while enrolled in the School of Dental Hygiene.

Admission to Bachelor of Science in Dental Hygiene (Entry-Level)

OVERVIEW: The ODU baccalaureate dental hygiene program strives to prepare professional dental hygienists qualified for positions in a variety of healthcare settings and/or for graduate study in dental hygiene. Admissions procedures and decisions are nondiscriminatory. A diverse pool of applicants is encouraged to apply. Dental hygienists serve as clinicians, educators, researchers, administrators, managers, program developers, consultants, and/or dental product sales representatives, depending on the individual's employment setting and educational background. Dental hygienists with a bachelor's degree may pursue careers in education, research, community and public health settings, institutional, entrepreneurial, and industrial dental hygiene. Dental hygiene education curriculum is scientifically-oriented and rigorous. Accreditation requirements limit enrollment based on resources including faculty-student ratios. Therefore, admission is competitive with standardized and fair criteria and procedures to ensure selected candidates have the potential for successfully completing the program. Required prerequisites courses and dental hygiene curricular content can be found below. Recommended courses for transfer from the Virginia Community College System (VCCS) can be viewed here: https://www.odu.edu/transfer/vccs-transfer-guide. To determine if courses taken outside of ODU will transfer, visit: https://transfer2.odu.edu/ equivalency. All applicants are highly encouraged to seek advising from the ODU College of Health Sciences Advising Team before applying. They can be reached by emailing: hsadvising@odu.edu. This program is fully on campus.

Below is an explanation of the 2-step application process with a list of criteria and instructions:

Step 1. Complete an online application to ODU as a degree-seeking student by December 1.

• Application information for undergraduate admission to the University can be found at: https://odu.edu/admission/undergraduate/. To determine if courses taken outside of ODU will transfer, visit: https://transfer2.odu.edu/ equivalency. All applicants are highly encouraged to seek advising from the ODU College of Health Sciences Advising Team before applying. They can be reached by emailing: hsadvising@odu.edu. This program is fully on campus.

Step 2. Apply to the entry-level baccalaureate degree program of the School of Dental Hygiene (SODH) using the American Dental Education Association Dental Hygiene Centralized Application Service (ADEA DHCAS). The deadline for completing this application is February 1.

The following 4 bullet points list Required parts of the dental hygiene application:

• All post-secondary educational official transcripts: The applicant is responsible for providing accurate and comprehensive information regarding their academic history by including official transcripts from all educational institutions attended since high school including community colleges, four-year colleges, and universities. Instructions for entering academic history information and sending official transcripts to DHCAS can be found at: https://help.liaisonedu.com/ADEA_DHCAS_Applicant_Help_Center (https://help.liaisonedu.com/ADEA_DHCAS_Applicant_Help_Center/). Failure to follow these instructions may cause delays in the verification of an application and/or the inability to be admitted to the School of Dental Hygiene. Candidates’ Grade Point Averages (GPAs) are evaluated in two ways: Overall GPA (minimum 3.0) and Science GPA (minimum 3.3). All courses attempted and grades earned are calculated into the GPAs by DHCAS. GPA calculations include +/- grades, and all grades earned for each attempt at a course (repeated courses are included). For information about GPA calculations, visit: https://help.liaisonedu.com/ADEA_DHCAS_Applicant_Help_Center/Filling_Out_Your_ADEA_DHCAS_Application/Academic_History/4_ADEA_DHCAS_Course_Subjects (https://help.liaisonedu.com/ADEA_DHCAS_Applicant_Help_Center/Filling_Out_Your_ADEA_DHCAS_Application/Academic_History/4_ADEA_DHCAS_Course_Subjects/). GPA is weighed most heavily for admissions decisions. While minimum GPAs are expected, many applicants have well above the minimums and are considered most competitive.

• High school unofficial transcripts: This may take some time; applicants are encouraged to enter information for their high school(s) and request transcripts at the beginning of the application process. Instructions can be found at: https://help.liaisonedu.com/ADEA_DHCAS_Applicant_Help_Center/Filling_Out_Your_ADEA_DHCAS_Application/Academic_History/4_ADEA_DHCAS_Course_Subjects. GPA is weighed most heavily for admissions decisions. While minimum GPAs are expected, many applicants have well above the minimums and are considered most competitive.

• Two ODU School of Dental Hygiene Recommendation Forms: These forms should be completed by current or previous academic and/or employment-related recommenders. Applicants send electronic copies of the School of Dental Hygiene Recommendation Form to their recommenders and explain that this specific form must be used. The form is located here (https://www.odu.edu/content/dam/odu/col-dept/dental-hygiene/docs/sodh-recommendation-form.docx). Then, go to the "Program Materials" section of the application, select "ODU," navigate to the "Evaluations" tab, and enter the recommenders’ names and email addresses. Be sure to do this accurately. Recruiters will receive an email from dhcasinfo@d hcas.org requesting they provide an "online evaluation." NOTE: Recommendation letters are not accepted
and will not be reviewed. For more information, visit: https://help.liaisonedu.com/ADEA_DHCAS_Applicant_Help_Center/Filling_Out_Your_ADEA_DHCAS_Application (https://help.liaisonedu.com/ADEA_DHCAS_Applicant_Help_Center/Filling_Out_Your_ADEA_DHCAS_Application/).

**Essay**: Applicants must upload a well-written 300-500 words typed essay on the following topic: “Dental hygiene professional roles include: clinician, corporate, public health, researcher, educator, administrator, and entrepreneur. Choose one role you are most interested in and explain how you would contribute to the profession in that role.” Applicants are highly encouraged to explore the American Dental Hygienists’ Association website to gather information for their essay: https://www.adha.org/professional-roles (https://www.adha.org/professional-roles/). There is no required format or reference style for the essay.

The following 6 bullet points list optional information applicants may include that would award points on their application. GPA is weighed heavily for admissions decisions, but the following additional information may be used to support admissions decisions. To earn these points, upload applicable electronic certificates/documents to the DHCAS application as proof:

- Radiation Safety Certificate=.5 points
- Certified Dental Assistant Certificate=.5 points
- Current CPR Card=.5 points
- Enrollment information: the number of semesters enrolled at Old Dominion University (past and present). Proof of this would show on submitted ODU transcripts. .25 points are awarded for each previous and currently enrolled semester.
- Previous degrees that have been conferred as shown on official transcripts. Points awarded are: Associate degree=.25; Bachelor’s degree=.5; Master’s degree=.75.
- Admission Test for Dental Hygiene (ATDH) scores are optional, but recommended. If an applicant submits scores, points will be awarded based on a range of scores. SCORE RANGES: score of 200=0 points; scores of 201 to 275=.25 points; scores of 276 to 350=.5 points; scores of 351 to 425=.75 points; scores of 426 to 500=1 point. For more information about the ATDH and how to report scores, visit: https://www.ada.org/education/testing/exams/admission-test-for-dental-hygiene-atdh (https://www.ada.org/education/testing/exams/admission-test-for-dental-hygiene-atdh/).

3. **Still have questions or concerns about the ADEA DHCAS application?**

- Answers to most questions are found here: https://help.liaisonedu.com/ ADEA_DHCAS_Applicant_Help_Center (https://help.liaisonedu.com/ADEA_DHCAS_Applicant_Help_Center/) or applicants may contact DHCAS Customer Service for assistance with questions about the application. Call 617-612-2095 or email dhcasinfo@dhas.org.
- The SODH does not have access to an application until it has reached the Admission Committee. The decision of the Admission Committee will be placed in the student’s academic folder. The decision of the Admission Committee is final.

4. **Wait for email notification.**

- Applicants will receive notification from the ODU Office of Admissions regarding the application decision for entrance into the University.
- Applicants will receive email notification in April from the SODH regarding the status of their application decision for entrance into the SODH (check email inbox and spam folder daily). If accepted or placed on the alternate candidate list, there will be deadlines in the email which will require immediate action. If accepted into the SODH, a $300 non-refundable place-keeping fee is required.
- Admission to ODU does not guarantee acceptance to the SODH. Applicants must be successfully admitted to both the University as a degree-seeking student and to the SODH.

5. If accepted into the SODH, students will need to attend the SODH’s required in-person orientation where they will meet with an advisor and register for dental hygiene classes. Orientation details will be emailed.

**Guaranteed Entry Program**

The guaranteed entry program is designed for highly qualified high school students who are committed to completing a Bachelor of Science in Dental Hygiene at Old Dominion University. Students accepted into this program will be guaranteed a position upon completion of the prerequisites and candidacy requirements as outlined by Old Dominion University School of Dental Hygiene.

**Advanced Placement Policy and Procedure**

The School of Dental Hygiene at Old Dominion University has the option of awarding advanced placement for didactic and clinical experience taken at other institutions of higher education. Students accepted into the entry-level dental hygiene program with coursework from dental hygiene or dental programs may apply for advanced placement within the program. The decision to award advanced placement is dependent on the length of time since the course was taken, grade received, course content, and whether the program is accredited by the American Dental Association (ADA) Commission on Dental Accreditation.

I. Students who have completed dental hygiene or dental coursework within the past five years at a program that is accredited by the ADA:

A. **Requirements**

1. Receive at least a "C" in the course being requested.
2. Provide official transcripts from the institution awarding course credit to the Admission Chair of the School of Dental Hygiene.
3. At the request of the Dental Hygiene Admission Chair, provide available course materials for evaluation including course syllabus and course description.

B. **Procedure**

1. Following acceptance into the entry-level dental hygiene program, the student will request consideration for advanced placement in writing. Requests for advanced placement should be provided to the Admission Chair in the month of May of the year of application.
2. Students will be notified in writing of the decision for advanced placement credit from the Admission Committee. One of the following recommendations will be made: a. Award course credit.
   b. Require course(s) be taken for pass/fail.
   c. Require course(s) be taken for credit.
3. A copy of the evaluation and the recommendation from the Admission Committee will be placed in the student's academic folder. The decision of the Admission Committee is final.

II. Students who have completed dental hygiene or dental coursework beyond the five-year period at a program that is accredited by the ADA are invited to challenge individual courses by passing a test for the desired courses. Successful completion (75% or higher) will exempt the students from the challenged course(s).

**Four-Year Plan - Dental Hygiene - BSDH (http://catalog.odu.edu/undergraduate/collegeofhealthsciences/dentalhygiene/dentalhygiene-bsdh-fouryearplan/)**

- The four-year plan is a suggested curriculum to complete this degree program in four years based on placement into STAT 130M and foreign language met in high school. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation.
Bachelor of Science Requirements for Entry-Level Program

Students must complete the entire curriculum of 120-126 credit hours (depending upon foreign language exemption) to meet degree requirements. All Dental Hygiene courses with the prefix DNTH are to be completed in a prescribed sequence within two academic years due to scheduling and space limitations. A minimum grade of C (2.00) must be obtained in all DNTH courses.

Students desiring to enroll in the BSDH Entry-level Dental Hygiene program must complete the following courses prior to beginning the dental hygiene major.

**Upper-Division General Education**

- Option A. Approved Disciplinary Minor, 12 hours minimum; also second degree or second major.
- Option B. Interdisciplinary Minor (specifically 12 hours, 3 of which may be in the major)
- Option C. An approved Certification Program such as teaching licensure
- Option D. Two Upper-Division Courses from outside the College of Health Sciences and not required by the major (6 hours)

**Requirements for Graduation**

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours in upper-level courses in the major program from Old Dominion University, completion of ENGL 110C, ENGL 211C or ENGL 221C or ENGL 231C, and the writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.

**Continuance Policy**

In addition to the Old Dominion University Continuance policies in this catalog, the following policies are specific to all declared majors in the Gene W. Hirschfeld School of Dental Hygiene. A grade of D (1.00) or F in any dental hygiene course will result in academic dismissal from the program. Inability to attend clinical practice or community rotations due to an agency refusal or infraction in a background check will be cause for dismissal. One finding of a violation of the Code of Student Conduct for academic integrity is grounds for removal from the dental hygiene program.

1. A grade of C (2.00) or better is required in all dental hygiene courses to continue in the dental hygiene program.
2. A cumulative grade point average of 2.00 or better is required to continue in the dental hygiene program.
3. A dental hygiene student who earns a D (1.00) or F in a dental hygiene course and after dismissal from the program, may seek reapplication to be considered for readmission to the dental hygiene program (see Readmission Policy).

3 Dental Hygiene
Policy on Readmission

Subsequent to dismissal or withdrawal for academic deficiencies, readmission may be sought through reapplication to the Dental Hygiene Program. A student who must repeat one or more courses in the dental hygiene major must first be readmitted to the dental hygiene program. In order to initiate the readmission process, the student shall submit a letter to the School of Dental Hygiene, requesting readmission to the program, with supporting documents to include a copy of official transcripts and letter of intention indicating the reasons why he/she should be reconsidered and proposed goals for achieving academic success no later than one month after dismissal date. A cumulative GPA of 3.0 will make the candidate competitive for readmission consideration. Students dismissed for violations of the Student Code of Conduct and Academic Integrity are ineligible for readmission. Once the School of Dental Hygiene has processed the letter of intent and official transcripts, the admissions committee will consider the student for readmission. The process of reconsideration will include a careful review of the student’s academic records, the letter of intent, and an assessment of potential for academic progress in the future by a readmission committee. Recommendations relative to readmission will be referred to the School of Dental Hygiene Chair in conjunction with the Chief Department Advisor and Office of Admissions for final decision and notification, including conditions for readmission, where appropriate. Readmitted students are allowed to repeat a failed course only once. A student may be readmitted to the dental hygiene major only once. A student who leaves the major and is readmitted will be required to take additional course work prior to or concurrent with readmission. Readmission will be granted on a space-available basis only after regular admission has been filled. Appeal of readmission decisions should be directed to the School of Dental Hygiene Chair.

Bachelor of Science in Dental Hygiene Post-Licensure Online Program (for Registered Dental Hygienists)

Amber Hunt, Post-Licensure Online Program Director

The Bachelor of Science in Dental Hygiene (BSDH) Post-Licensure Online program is designed for students who have completed a certificate or associate degree from an accredited dental hygiene program and desire to continue their education toward a Bachelor of Science in Dental Hygiene. The program provides an opportunity for the licensed dental hygienist to gain knowledge, skills, and attitudes necessary for expanded career opportunities in education, oral health promotion, research, community and public health, management, and marketing. This program also provides a strong foundation for graduate studies. A minimum of 120 credit hours is necessary to obtain the baccalaureate degree. The length of time required to complete the program and University requirements is determined by the number of acceptable college transfer credits; at least 30 credit hours must be taken at Old Dominion University. Students can expect to complete the program in three to four academic semesters of full-time study. The BSDH Post-Licensure online program is available online or as a hybrid of online and on-campus courses.

Admission to the Bachelor of Science in Dental Hygiene Post-Licensure Online Program

A licensed dental hygienist educated at another institution who desires to pursue the Bachelor of Science in Dental Hygiene should apply and be accepted by Old Dominion University as an upper-level dental hygiene transfer student. Formal acceptance as a dental hygiene major will be determined by the Admissions Committee for the B.S.D.H. Post-Licensure Online Program. The School of Dental Hygiene BSDH Post-Licensure application must be submitted to the American Dental Education Association’s Dental Hygiene Centralized Application Service (ADEA DHCAS) website (https://adea.org/dhcas.aspx) and must have “Verified” status to be considered complete and ready for review. Admission to the University does not constitute admission to the dental hygiene program.

Transfer applicants must meet the following requirements:

1. Graduation from an accredited dental hygiene program.
2. Successful completion of all University lower-level general education and department requirements.
3. Submission of application to the Old Dominion University Office of Admissions including official high school and college transcripts.
4. Acceptance to Old Dominion University.
5. Submission of completed School of Dental Hygiene BSDH Post-Licensure application to the American Dental Education Association’s Dental Hygiene Centralized Application Service (ADEA DHCAS) website (https://adea.org/dhcas.aspx) with the following items:
   a. Official transcripts from high school and college academic institutions attended
   b. Copy of National Board Dental Hygiene Examination Score
   c. Two professional letters of recommendation
   d. Current healthcare provider CPR/AED certificate/biennially requested
   e. Current resume
   f. Registered Dental Hygienist License

Curriculum for BSDH Post-Licensure Online Program

Requirements

Transfer students must satisfy the following:

1. Certificate or associate degree in dental hygiene from an accredited dental hygiene program.
2. Students without credit for ENGL 110C must achieve a passing score on the Writing Success Placement Tool (WSPT).
3. Successful completion of the University Lower-Division General Education requirements or a transfer associate degree.

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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 110C</td>
<td>English Composition</td>
<td>3</td>
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<tr>
<td>ENGL 211C</td>
<td>Introduction to Academic Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 221C</td>
<td>Introduction to Writing in Business, Education and Social Sciences</td>
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<tr>
<td>ENGL 231C</td>
<td>Introduction to Technical and Scientific Writing</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>Literature</td>
<td>3</td>
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<tr>
<td>Human Creativity</td>
<td>3</td>
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<tr>
<td>Interpreting the Past</td>
<td>3</td>
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<td>Information Literacy and Research **</td>
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<td>Oral Communication/Public Speaking **</td>
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<td>Philosophy and Ethics **</td>
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<td>Impact of Technology**</td>
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<td><strong>Total Hours</strong></td>
<td>15-21</td>
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** Information Literacy/Research, Oral Communication, Philosophy/Ethics, and Impact of Technology will be satisfied in the major for the BSDH Post-Licensure Program.

4. Successful completion of department requirements or the equivalent. A grade of (C) or better is required in all courses. A grade of C- will not transfer to the School of Dental Hygiene.

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<tr>
<th>Course</th>
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<tr>
<td>STAT 130M</td>
<td>Elementary Statistics *</td>
<td>3</td>
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<tr>
<td>CHEM 105N &amp; CHEM 106N</td>
<td>Introductory Chemistry and Introductory Chemistry Laboratory *</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 150</td>
<td>Introductory Microbiology *</td>
<td>3</td>
</tr>
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who have a cumulative 3.30 grade point average and senior standing. Entry-level and BSDH Post-Licensure online dental hygiene students are permitted to travel abroad, develop cross-cultural competence, experience global health services to patients with emphasis on basic dental hygiene instrumentation and ergonomics. Offered each fall. Pre- or corequisite: DNTH 300 and DNTH 302.

DNTH 302. Oral Anatomy and Histology. 3 Credits.
A study of the anatomical, histological, embryological and morphological features and development of the head, neck and dentition. Emphasis is on nomenclature, nerve and vascular innervation, muscles of mastication, orofacial embryology and histological features of the oral cavity for practice and forensic identification. Prerequisites: BIOL 240 or BIOL 250 and BIOL 241 or BIOL 251 or equivalent.

DNTH 303. Applied Dental Materials. 3 Credits.
An introduction to biomaterials with emphasis on those materials and techniques common in dental hygiene practice and used and maintained by the dental hygienist. (offered fall) Prerequisites: CHEM 105N-106N.

DNTH 304. Oral Radiology I. 3 Credits.
Study of the nature and production of x rays and basic principles and procedures in oral radiology. Emphasis is on radiation physics, radiation biology, radiation protection and safety, basic intraoral radiographic techniques and imaging procedures. (offered fall) Prerequisites: permission of the instructor.

DNTH 305. Dental Hygiene Theory II. 3 Credits.
Continuation of study of the theoretical foundation of preventive and therapeutic oral health services used in the dental hygiene process. Emphasis is on preparation for ethical, evidence-based client care. (offered spring). Prerequisites: DNTH 300 and DNTH 301.

DNTH 306. Dental Hygiene Services II. 3 Credits.
Clinical experience in the on-campus supervised clinic. Continued development of clinical proficiency and ethical, evidence-based decision making in rendering comprehensive preventive oral health services using the dental hygiene process. Emphasis is on clinical application and development of competence in maintenance, management and evaluation of the periodontal patient; care planning, disease control strategies; and scaling and oral debridement on periodontally involved patients (offered spring). Corequisite: DNTH 305. Prerequisites: DNTH 300, DNTH 301 and DNTH 304.

The Dental Hygiene Research Center
The focus of the Dental Hygiene Research Center is to support research through collaboration and partnerships that will provide a foundation for dental hygiene services and practice, advance the practice of dental hygiene, and improve the oral health status of the public. Multidisciplinary and interdisciplinary projects are developed with healthcare facilities, private industry, and other academic institutions. Undergraduate and graduate students are integrated into the research process, which contributes to the understanding between theory and practice.

DENTAL HYGIENE Courses

DNTH 300. Dental Hygiene Theory I. 4 Credits.
An introduction to the theoretical foundations of preventive and therapeutic oral health services used in the dental hygiene process. Emphasis is on prevention of disease transmission, patient assessment, dental hygiene instrumentation, oral health instruction, treatment planning and ethical decision making. (offered fall) Corequisite: DNTH 301. Prerequisite: junior standing. Pre- or corequisite: DNTH 302 and DNTH 304.

DNTH 301. Dental Hygiene Services I. 3 Credits.
Preclinical experience in the on-campus supervised clinic. Clinical and laboratory application of introductory skills essential to rendering oral health services to patients with emphasis on basic dental hygiene instrumentation and ergonomics. Offered each fall. Pre- or corequisite: DNTH 300 and DNTH 302.

DNTH 302. Oral Anatomy and Histology. 3 Credits.
A study of the anatomical, histological, embryological and morphological features and development of the head, neck and dentition. Emphasis is on nomenclature, nerve and vascular innervation, muscles of mastication, orofacial embryology and histological features of the oral cavity for practice and forensic identification. Prerequisites: BIOL 240 or BIOL 250 and BIOL 241 or BIOL 251 or equivalent.

DNTH 303. Applied Dental Materials. 3 Credits.
An introduction to biomaterials with emphasis on those materials and techniques common in dental hygiene practice and used and maintained by the dental hygienist. (offered fall) Prerequisites: CHEM 105N-106N.

DNTH 304. Oral Radiology I. 3 Credits.
Study of the nature and production of x rays and basic principles and procedures in oral radiology. Emphasis is on radiation physics, radiation biology, radiation protection and safety, basic intraoral radiographic techniques and imaging procedures. (offered fall) Prerequisites: permission of the instructor.

DNTH 305. Dental Hygiene Theory II. 3 Credits.
Continuation of study of the theoretical foundation of preventive and therapeutic oral health services used in the dental hygiene process. Emphasis is on preparation for ethical, evidence-based client care. (offered spring). Prerequisites: DNTH 300 and DNTH 301.

DNTH 306. Dental Hygiene Services II. 3 Credits.
Clinical experience in the on-campus supervised clinic. Continued development of clinical proficiency and ethical, evidence-based decision making in rendering comprehensive preventive oral health services using the dental hygiene process. Emphasis is on clinical application and development of competence in maintenance, management and evaluation of the periodontal patient; care planning, disease control strategies; and scaling and oral debridement on periodontally involved patients (offered spring). Corequisite: DNTH 305. Prerequisites: DNTH 300, DNTH 301 and DNTH 304.
DNTH 305. Pharmacology and Medical Emergencies. 3 Credits.
A study of pharmacologic agents used in oral healthcare and of medications that the patient may be taking, their clinical effects, adverse effects, and dental implications, and the prevention and management of medical emergencies. Emphasis is on agents commonly used by patients which may require the alteration of treatment procedures, therapeutic agents used adjunctively in dental hygiene therapy and agents used in medical emergency procedures. (offered spring) Prerequisites: DNTH 302 and BIOL 240 or BIOL 250 and BIOL 241 or BIOL 251 or equivalent.

DNTH 306. Care. (offered fall) Corequisite: and periodontally involved patients using the dental hygiene process of development of competencies for the treatment of diverse, special needs development of clinical proficiency and ethical, evidence-based decision making. (offered spring) Prerequisites: DNTH 302.

DNTH 307. Oral Pathology. 3 Credits.
Principles of the disease process and general pathology including cell injury, infection, inflammation, neoplasia and circulatory disturbances are followed by the study of pathology of the teeth, supporting and associated oral structures. Emphasis is on the clinical and radiological appearance of local and systemic disease processes affecting the oral and facial structures. (offered spring) Prerequisites: DNTH 302.

DNTH 308. Oral Radiology I. 2 Credits.
Continued development of the principles and techniques obtained in Oral Radiology I with emphasis on supplemental intraoral techniques especially for client management; extroral techniques; radiographic interpretation of film-based and digitally acquired images; and use of dental photography in patient care. (offered spring) Prerequisites: DNTH 304.

DNTH 309. Oral Radiology II. 2 Credits.
Continued development of the principles and techniques obtained in Oral Radiology I with emphasis on supplemental intraoral techniques especially for client management; extroral techniques; radiographic interpretation of film-based and digitally acquired images; and use of dental photography in patient care. (offered spring) Prerequisites: DNTH 300 and DNTH 301.

DNTH 310. Dental Hygiene Therapies and Practice. 3 Credits.
Emphasis is on principles of periodontics, evaluation of periodontal disease, and theoretical and clinical preparation for delivery of dental hygiene interventions. (offered spring) Prerequisites: DNTH 300 and DNTH 301.

DNTH 311. Dental Hygiene Therapy and Services III. 3 Credits.
Clinical experience in the on-campus supervised clinic. Continued development of clinical competency and ethical, evidence-based decision making in rendering comprehensive preventive and therapeutic oral health services and technologies using the dental hygiene process of care. (offered summer) Prerequisites: DNTH 305, DNTH 306, DNTH 307 and DNTH 309.

DNTH 312. Anxiety and Pain Control. 2 Credits.

DNTH 313. Topics in Dental Hygiene Practice. 1-6 Credits.
Selected topics in dental hygiene vary by semester. (offered fall, spring, summer) Prerequisites: permission of the instructor.

DNTH 314. Independent Study in Dental Hygiene. 1-6 Credits.
Independent reading and study on a topic selected under direction of a faculty member. (offered fall, spring, summer) Prerequisites: permission of the instructor.

DNTH 315. Dental Hygiene Theory IV. 3 Credits.
Study of the psychosocial, physical and oral characteristics of patients with special needs. Emphasis is on the care and clinical management of the following patients: cognitively, developmentally and physically challenged, aged, pregnant, epileptic, diabetic, cancer, AIDS, chemically dependent and the blind and deaf. (offered fall) Prerequisites: DNTH 305, DNTH 306, and DNTH 316.

DNTH 316. Dental Hygiene Theory and Services IV. 6 Credits.
Clinical experience in the on-campus supervised clinic. Continued development of clinical proficiency and ethical, evidence-based decision making in providing comprehensive preventive and therapeutic oral health services. Emphasis is on intra/interprofessional clinical application and development of competencies for the treatment of diverse, special needs and periodontally involved patients using the dental hygiene process of care. (offered fall) Corequisite: DNTH 410. Prerequisites: DNTH 305, DNTH 306, and DNTH 309.

DNTH 317. Community Oral Health Planning. 3 Credits.
Introduction to the principles of dental public health, health literacy, oral epidemiology, evidenced-based prevention and control of oral disease on a population basis. Emphasis is on program assessment, planning, implementation, and evaluation for the development of community-based dental programs. This course prepares students for the role of oral health educator, client advocate and resource person in community settings. (offered fall) Prerequisites: DNTH 305, DNTH 306 or permission of the instructor.

DNTH 410. Advanced Dental Hygiene Practice. 1-6 Credits.
Clinical experience in the on-campus supervised clinic. Continued development of clinical proficiency and ethical, evidence-based decision making in providing comprehensive preventive and therapeutic oral health services within the dental hygiene process of care. Emphasis is on intra/interprofessional development of competencies for the treatment of periodontally involved, special needs and diverse patients. (offered spring) Corequisite: DNTH 411. Prerequisites: DNTH 410 and DNTH 411.

DNTH 411. Advanced Dental Hygiene Practice II. 2 Credits.
Clinical experience in the on-campus supervised clinic. Continued development of clinical proficiency and ethical, evidence-based decision making in providing comprehensive preventive and therapeutic oral health services within the dental hygiene process of care. Emphasis is on intra/interprofessional development of competencies for the treatment of periodontally involved, special needs and diverse patients. (offered spring) Corequisite: DNTH 411. Prerequisites: DNTH 410 and DNTH 411.

DNTH 412W/P12. Perspectives on Dental Hygiene Practice. 3 Credits.
Course is designed for the licensed dental hygienist who seeks to maintain an awareness of changing trends, perspectives, evidence-based interventions and technologies in dental hygiene, health, and society that influence the dental hygiene process of care. This is a writing intensive course. (Offered summer) Prerequisites: grade of C or better in ENGL 110C and ENGL 211C or ENGL 221C or ENGL 231C and admission into the dental hygiene program.

DNTH 413. Community Oral Health Planning. 3 Credits.
Introduction to the principles of dental public health, health literacy, oral epidemiology, evidenced-based prevention and control of oral disease on a population basis. Emphasis is on program assessment, planning, implementation, and evaluation for the development of community-based dental programs. This course prepares students for the role of oral health educator, client advocate and resource person in community settings. (offered fall) Prerequisites: DNTH 305, DNTH 306 or permission of the instructor.

DNTH 414/514. Educational Concepts for the Health Professional I. 3 Credits.
This course is designed to explore various educational concepts, principles and methods of teaching for adults. Students will learn to present educational information to a diverse client population, in a variety of settings, in an ethical and professional manner. Topics include, but are not limited to, objectives, planning, implementation and evaluation of instruction; instructional strategies; delivery models; presentation skills; and techniques for communicating health information. Prerequisites: admission to the dental hygiene program.

DNTH 415/515. Research Methods in the Health Sciences. 3 Credits.
Designed to develop skills in scientific methods, evidence based decision making and critical analysis of research findings. Emphasis on types of research, levels of evidence, problem selection and hypothesis writing, research planning and design, data collection and measuring techniques, analysis and interpretation of data, research proposal writing and computer application. A written research proposal is required for graduate credit. (offered fall) Prerequisites: STAT 130M.

DNTH 416. Administrative Leadership and Professional Development. 3 Credits.
A study of current trends that influence the profession of dental hygiene including oral health care delivery, manpower, financing mechanisms, quality improvement, third party payers, professional associations, regulatory agencies and legislation. Emphasis is on ethical, political, and legal issues as they relate to the dental hygiene profession. offered spring) Prerequisites: Admission to the dental hygiene program.

DNTH 417W. Dental Hygiene Theory V. 3 Credits.
Designed to transition students into diverse employment settings nationally and globally. Emphasis is on written communication skills, practice management, working in multicultural settings, selecting an employment setting, values clarification, resume writing, interview techniques, networking, ethical dilemmas and cross-cultural competencies necessary for contemporary healthcare environments. Various national and international career opportunities are explored. This is a writing intensive course. Corequisite: DNTH 418. Prerequisites: DNTH 410, DNTH 411 and a grade of C or better in ENGL 110C and ENGL 211C or ENGL 221C or ENGL 231C.

DNTH 418. Dental Hygiene Services V. 6 Credits.
Clinical experience in the on-campus supervised clinic. Continued development of proficiency and ethical, evidence-based decision making in providing comprehensive preventive and therapeutic oral health services within the dental hygiene process of care. Emphasis is on intra/interprofessional development of competencies for the treatment of periodontally involved, special needs and diverse patients. (offered spring) Corequisite: DNTH 417W. Prerequisites: DNTH 410 and DNTH 411.
DNTH 419. Community Oral Health Practice. 3 Credits.
Interprofessional service-learning experiences designed to prepare students to function as oral health practitioners, educators, client advocates and resource persons in community health settings. Emphasis is on providing evidenced-based educational, preventive and therapeutic services for special needs populations including geriatric, institutionalized and cognitively, developmentally and physically challenged individuals. Participation in planning, implementing and evaluating a community oral health project. Design and delivery of a poster session is required. (offered spring; varies days and times) Prerequisites: DNTH 413.

DNTH 440T/540. Telehealthcare Technology. 3 Credits.
This course examines the concept, global impact, and trends in telehealthcare technology on the client/patient, multidisciplinary practitioners, and various healthcare systems. Emphasis is on effective evidence-based decision making to reduce errors in patient care, promote care in remote or underserved geographical areas, and the ability to retrieve and evaluate healthcare information that improves access to quality, cost effective health care. (Offered spring) Prerequisites: sophomore standing and permission of the instructor.

DNTH 450. International Dental Hygiene. 1-3 Credits.
International locations are determined by the School of Dental Hygiene in conjunction with the Office of Study Abroad. Program participation requires approval from the School of Dental Hygiene and the Office of Study Abroad. Provides an on-location international experience in oral care delivery, practice and regulation, and dental hygiene education. Students will be required to give presentations, review the dental care delivery system, and explore how the cultural beliefs and practices affect oral health, dental care seeking behaviors, and the oral health status of the population. Orientations will be conducted prior to travel. Prerequisite: DNTH 316.

DNTH 451. Ergonomics and Exercises for Static Posture Occupations. 1 Credit.
This active participation course is designed for persons who work in static posture professions (e.g., dental hygienists, laboratory and computer office personnel) and who seek to practice ergonomic body mechanics and exercise therapies to prevent musculoskeletal disorders and repetitive strain injuries. Topics include biomechanics, creating an ergonomically sound work space, alternative sitting and standing techniques during clinical care, types of disorders and injuries, risk management, comprehension and demonstration of full body exercises with emphasis on core strength training, and self-monitoring. (offered online summer session only) Prerequisites: permission of instructor.

DNTH 495. Topics in Dental Hygiene. 1-3 Credits.
Seminars on selected topics in dental hygiene. Topics vary by semester. (offered fall, spring, summer) Prerequisites: permission of the instructor.

DNTH 497/597. Independent Study in Dental Hygiene. 1-6 Credits.
Independent reading and study on a topic selected under direction of a faculty member. (Offered fall, spring, summer) Prerequisites: permission of instructor.