

DENTAL HYGIENE

Dental Hygiene

College of Allied Health & Nursing

Department of Dental Hygiene

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Chair: Lynnette Engeswick

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The dental hygiene curriculum is designed to provide opportunities for the student to develop a sound clinical and theoretical foundation for the practice of dental hygiene. The graduate is prepared to fulfill the dental hygiene roles as clinician, change agent, educator, researcher and consumer advocate as put forth by the American Dental Hygienists' Association.

The program is designed to meet the American Dental Association's Commission on Dental Accreditation Standards for Dental Hygiene, and offers a Bachelor of Science degree upon completion.

Admission to Major. Application for admission to the Dental Hygiene program is a separate process in addition to being admitted to the University. It is highly recommended to meet with a Dental Hygiene advisor to formulate a plan of study as soon as possible. Requirements for application for admission to the traditional dental hygiene major include:

1. Completion of at least 36 semester credits.
2. A minimum career grade-point average of 2.5.
3. Successful completion of prerequisites of SPEE 100 or 102, ENG 101, PSYC 101, SOC 150 or 101, BIOL 220, MATH 112 and two of these three courses: BIOL 270, BIOL 230, or CHEM 111, and DHYG 100.

The application form may be obtained from the Dental Hygiene Department secretary. The number of students admitted to the Dental Hygiene major is limited to 24 students admitted each fall semester. Applicants are accepted primarily based on academic achievement in prerequisite courses with an emphasis placed on the science prerequisites.

Requirements for admission to the Dental Hygiene BS Degree Completion option are:

- 1) Successful completion of a Program in Dental Hygiene accredited by the ADA Commission on Dental Accreditation.
- 2) License to practice dental hygiene (or eligible for licensure).
- 3) CPR level C certification
- 4) Completion of HBV series.
- 5) A minimum grade point average of 2.0
- 6) Three written reviews of the candidate's qualifications; one from the director and/or faculty member from the Program in Dental Hygiene from which the candidate graduated.

The Dental Hygiene BS degree completion option is considered a broad major and does not require a minor. Each student will develop an individual plan of study with the Degree Completion Coordinator to meet the general education and upper division requirements.

DENTAL HYGIENE BS

Required General Education (33 credits):

ENG	101	Composition (4)#	
SPEE	100	Fundamentals of Speech Communication (3)#	OR
SPEE	102	Public Speaking (3)#	
CHEM	111	Chemistry of Life Processes (5)^	
BIOL	270	Microbiology (4)^	
PSYC	101	Psychology (4)#	
SOC	150	Social Problems (3)#	OR
SOC	101	Introduction to Sociology (3)#	
HLTH	101	Health and the Environment (3) ~	
PHIL	222W	Medical Ethics (3) ~ OR	

PHIL	120W	Introduction to Ethics (3) ~
MATH	112	College Algebra (4)#

Recommended for major

COMS	100	Introduction to Computer Science (4)
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Required for Major (18-19 credits):

BIOL	220	Human Anatomy (4)#
BIOL	230	Human Physiology (4)^
DHYG	100	Perspectives in Dental Hygiene (1)#
FCS	240	Nutrition I (3) ~
HLTH	321	Medical Terminology (3) ~

Choose one course from the following:

HLTH	475	Biostatistics (3)
PSYC	201	Statistics for Psychology (4)
SOC	202	Introductory Social Statistics (3)
ECON	207	Business Statistics (4)

#Prerequisites must be successfully completed before applying.

^Two of these three courses must be successfully completed prior to submitting an application to the Dental Hygiene Program. The third course must be successfully completed prior to enrolling in dental hygiene courses.

~ Must be successfully completed prior to enrolling in dental hygiene courses.

Dental Hygiene Core (58-62 credits):

DHYG	311	DHYG	313	DHYG	319	DHYG	321	DHYG	322
DHYG	325	DHYG	326	DHYG	327	DHYG	328	DHYG	329
DHYG	331	DHYG	332	DHYG	333	DHYG	334	DHYG	335
DHYG	420	DHYG	421	DHYG	422	DHYG	423	DHYG	424
DHYG	425	DHYG	426	DHYG	427	DHYG	428	DHYG	431
DHYG	432	DHYG	435	DHYG	437	DHYG	438	DHYG	439
DHYG	440								

Required Electives:

Electives to yield a total of 128 semester credits are required.

Required Minor: None

DENTAL HYGIENE BS DEGREE COMPLETION OPTION

Required for Major (32 credits)

DHYG	441	Advanced Dental Hygiene Practice (3)
DHYG	442	Current Issues in Dental Hygiene (3)
DHYG	443	Technology in Oral Health (3)
DHYG	444	Principles of Oral Health Promotion (3)
DHYG	445	Educational Methods in Dental Hygiene (3)
DHYG	451	Dental Hygiene Care Planning (3)
DHYG	452	Decision Making in Periodontology (3)
DHYG	453	Research Methods in Dental Hygiene (3)
DHYG	454	Oral Health Promotion Practice (3)
DHYG	455	Educational Practice in Dental Hygiene (3)
DHYG	456	Oral Medicine and Treatment Planning (2)

POLICIES/INFORMATION

P/N Grading Policy. All courses required for Dental Hygiene must be taken for a letter grade and a letter grade of C or higher must be achieved. A grade of D or F in a Dental Hygiene course will result in academic suspension from the program. Completion of course numbers 326 forward requires successful completion of previous Dental Hygiene courses obtaining a "C" or better in order to continue in the Dental Hygiene program.

Costs. A student in the dental hygiene program should be prepared to spend about \$300 each semester for books and supplies. An additional \$2,200+ will be spent for instruments, gloves, uniforms, etc. Approximately 50 percent is paid before beginning the program. Upon acceptance to the program a deposit of \$100 is required. The remainder is due in July of the same year.

Dental hygienists are at risk for exposure to blood borne pathogens (BBP). Accepted students will be required to be vaccinated against hepatitis B and will also be required to have their blood tested following any exposures to BBP through needle sticks, cuts or splashes that occur at the Minnesota State Mankato Dental Clinic or any off-site clinical sites. Currently the vaccine series

costs approximately \$150. Students must successfully complete a CPR course prior to enrolling fall semester.

COURSE DESCRIPTIONS

DHYG 100 (1) Perspectives in Dental Hygiene

This course will give the student an introduction to Dental Hygiene as a profession and career. Exploration of dental hygiene practice and an overview of the dental hygiene curriculum and conceptual framework will be covered.

DHYG 311 (3) Preclinical Orientation

This course includes an introduction to dental terminology and clinical aspects of dental hygiene treatment including care and use of equipment/instruments, infection control and preparation of patient records.

Pre: Admission into Dental Hygiene and Dental Terminology packet F

DHYG 313 (3) Clinical Skills Development

This course will teach the operative techniques needed to perform oral prophylactic procedures and health education through laboratory/clinical practice.

Pre: Admission into Dental Hygiene F

DHYG 319 (2) Head and Neck Anatomy and Histology

Head and Neck Anatomy is the study of the hard and soft tissues of the head and neck including bones, muscles, nerves, blood supply, glands and how they function. Oral Histology is the study of cells and cell layers which compose basic tissues, oral mucosa, gingival and dentogingival tissues, orofacial structures, enamel, dentin and pulp. F

DHYG 321 (3) Radiography I

This course includes production of dental radiographs, physics of x-radiation, biologic effects, interpretation, processing, mounting, and laboratory practice on mannequins and patients. Special attention is given to infection control, safety precautions, and patient selection.

Pre: Admission into Dental Hygiene F

DHYG 322 (2) Biomaterials I

This course is the first of two courses that studies the fundamental elements, purposes and uses of dental materials in the modern dental office. In addition it will give the dental hygiene student a fundamental understanding and skill level of basic dental assisting techniques utilized in the dental office. F

DHYG 325 (2) Oral Anatomy

This course includes the study of the permanent, mixed and primary dentitions including each individual tooth's morphology, function and occlusion.

Pre: Admission into Dental Hygiene F

DHYG 326 (2) Biomaterials II

This course is the second of two courses that studies the fundamental elements, purposes and uses of the materials used in the modern dental office. The student will develop laboratory or clinical competency in functions using dental materials that are legal duties for Minnesota dental hygienists.

DHYG 327 (2) Periodontology I

This course will include a study of supporting tooth structures, identification, classification, etiology, progression and treatment of periodontal diseases.

S

DHYG 328 (2) Radiography Interpretation

This course will study the normal anatomical features from intraoral and extraoral radiographs. Students will then use this knowledge to interpret what is seen on radiographs to discern normal from abnormal. Interpretation of dental caries, periodontal disease and pathology are among the topics this course will cover. S

DHYG 329 (3) Oral Embryology and Pathology

Oral Embryology encompasses development of human body from conception through birth, with a focus on development of the face and hard and soft tissues of the oral cavity. Oral Pathology addresses the causes and mechanisms of

disease with special emphasis on common oral lesions and neoplasms, stressing their etiology and clinical manifestations. S

DHYG 331 (2) Clinical Dental Hygiene I

This course provides an opportunity for dental hygiene students to develop their roles as educators, clinicians, consumer advocates, change agents, researchers, and administrators in a clinical setting.

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DHYG 332 (2) Clinical Seminar I

This course includes the study of treatment planning, oral health education, ultrasonic scalers, cardiology, sealants, and new products. Library use and writing a research paper are also included.

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DHYG 333 (2) Clinical Dental Hygiene IS

This course offers the student continued practice of dental hygiene treatment procedures in the Minnesota State Mankato Dental Clinic.

SS

DHYG 334 (1) Dental Computer Software Management

This course is designed to equip the dental hygiene students with the skills necessary to manage a dental computer software program. A focus on networking, dental resource codes and insurance protocol will also be covered. S

DHYG 420 (1) Local Anesthesia

This course is designed to be a study of the fundamental elements, purposes, and uses of local anesthesia for the dental hygienist. F

DHYG 421 (3) Clinical Dental Hygiene II

This course offers the student continued practice of dental hygiene treatment procedures in the Minnesota State Mankato Dental Clinic. It includes several mandatory off-campus experiences.

F

DHYG 422 (1) Clinical Seminar II

This course focuses on clinical procedures, educational techniques and legal and ethical issues as they apply to the patient- dental hygiene provider relationship.

F

DHYG 423 (3) Pharmacology

Pharmacology is the study of drugs used in dentistry or medicine for the treatment, prevention and diagnosis of disease.

F

DHYG 424 (1) Nitrous Oxide Sedation

The course is designed to be a study of the fundamental elements, purposes and uses of nitrous oxide sedation in the practice of dental hygiene. This course meets the educational criterion established by the Minnesota Board of Dentistry. S

DHYG 425 (3) Community Dental Health

This course introduces second year dental hygiene students to the disciplines and basic principles of community dental health, epidemiologic methods and biostatistical measurement analysis. Preventive oral health measures and program development is

included to provide a background for the practical application of dental public health methods to the community.

F

DHYG 426 (1) Dental Hygiene Jurisprudence and Ethics

This course focuses on legal and ethical issues as applied to the patient dental hygiene provider relationship. F

DHYG 427 (2) Periodontology II

Didactic and clinical study of etiology, diagnosis, preventive and therapeutic procedures involved with periodontal disease.

F

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DHYG 428 (1) Teledentistry Technology

This course is designed to prepare the dental hygiene student in the use of new technologies in the modern dental office. Students will learn to integrate these new technologies into the teledentistry model. F

DHYG 431 (3) Clinical Dental Hygiene III

This course offers the student continued practice of dental hygiene treatment procedures in the Minnesota State Mankato Dental Clinic. It includes several mandatory off-campus experiences.

S

CD-Related

DHYG 432 (2) Clinical Seminar III

This course focuses on the development of a personal sense of responsibility for the well-being and development of one's workplace from an employee perspective.

S

DHYG 435 (2) Community Practicum

This course focuses on the role of dental hygiene practitioners in promoting optimal oral health at the individual level and in the community.

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DHYG 437 (2) Dental Mgmt. of the Medically Compromised Patient

The course is designed to provide the dental hygiene practitioner with a survey of common medical disorders that may be encountered in a dental practice. The medical problems are organized to provide a brief overview of the basic disease process, etiology, incidence, prevalence, behavior characteristics, medications and oral manifestations commonly presented by the dental patients. As a result of the accumulation of evidence based research, the dental hygiene practitioner will be provided with an understanding of the disease, recognize the severity of the common medical disorders and make a dental management decision providing the patient with the highest possible level of oral health.

DHYG 438 (1) Advanced Community Practice I

The first of two clinical courses designed to utilize the assessment, planning, implementation and evaluation process in a community based setting. This course will address efforts to reduce incidence and severity of oral diseases resulting in improved access to community oral health in complex cases. F

DHYG 439 (1) Advanced Community Practice II

This is the second of two clinical courses designed to utilize the assessment, planning, implementation and evaluation process in a community based setting. This course will address efforts to reduce incidence and severity of oral diseases resulting in improved access to community oral health in complex cases. S

DHYG 440 (4) Restorative Functions

This course meets the requirements of the Minnesota Board of Dentistry for dental hygienists and assistants to legally perform new expanded duties including the placement, contouring and adjustment of amalgam, glass ionomer and composite restorations and the placement and adjustment of stainless steel crowns. S

DHYG 441 (3) Advanced Dental Hygiene Practice

Identify clinical skills and knowledge needed to improve effectiveness as a dental hygienist. Areas addressed: ultrasonic implementation using multiple types of devices, risk factor analysis, comprehensive treatment planning, Periscope (endoscope), carbide/diamond files, advanced instrumentation techniques, patient management, case presentation.

S

DHYG 442 (3) Current Issues in Dental Hygiene

Topics included but not be limited to: advanced practice models to expand oral health services, including restorative procedures; counseling regarding smoking cessation; recent medical advances in the field of dentistry and legal and policy issues currently impacting dental hygiene.

F

DHYG 443 (3) Technology in Oral Health

Assessment, planning, implementation and evaluation of the impact of emerging dental technology. Topics include dental practice software management, digital radiography, intra-oral cameras, patient education software, lasers in dentistry, and internet information sources for both practitioners and patients.

S

DHYG 444 (3) Principles of Oral Health Promotion

Leadership preparation in the delivery of oral health care in the public health model. Emphasis will be placed on defining oral health problems and solutions, community planning, implementation and evaluation based on the oral health objectives of Healthy People 2010.

F

DHYG 445 (3) Educational Methods in Dental Hygiene

Examines educational methods needed for effective dental hygiene instruction. Topics addressed within this course will include learner and context analysis, performance objectives, assessment instruments, instructional strategies, formative and summative evaluations. Emphasis will be placed on competency based instruction.

F

DHYG 451 (3) Dental Hygiene Care Planning

Evidence based dental management of patients with medical disorders encountered in dental practice. Provides an overview of basic disease processes, epidemiology, pathophysiology, and accepted medical therapies utilizing human needs model to formulate a dental hygiene care plan.

F

DHYG 452 (3) Decision Making in Periodontology

Combines the sciences and knowledge in the discipline of dental hygiene that permits synthesis and application of periodontal treatment techniques. Surgical and aggressive management of medically compromised periodontal patients will be addressed in this course.

F

DHYG 453 (3) Research Methods in Dental Hygiene

Provides student awareness of the American Dental Hygienists' Research Agenda and prepares students on the methodology of research. Includes strengths and limitations of quantitative and qualitative research methods while developing methodological skills and proficiencies related to research.

S

DHYG 454 (3) Oral Health Promotion Practice

Demonstration of oral health delivery in community based clinics embracing oral health promotion efforts as a methodology. Increasing demand for care, dental services and prevention resulting in reduction of oral diseases and improved community oral health.

Pre: DHYG 444

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DHYG 455 (3) Educational Practice in Dental Hygiene

Applies content from Principles of Educational Methods to support the role of dental hygiene educator in didactic and clinical instruction. Active participation in course design, delivery and evaluation in classroom, online or clinical format with emphasis on competency based instruction.

Pre: DHYG 445

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DHYG 456 (2) Oral Medicine and Treatment Planning

This course is designed to facilitate critical thinking skills related to drugs used in dentistry and medicine with emphasis placed on the impact of the dental hygiene diagnosis.

F, S

DHYG 499 (1-6) Individual Study