

# DENTAL HYGIENE (DNHY)

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**Please note:** semester courses.

## **DNHY 300S. HEAD AND NECK ANATOMY. 2 Credits.**

**Pre-requisites:** admission to DNHY Program.

A detailed study of head and neck anatomy, including bones, musculature, blood, lymphatic and nerve supply.

## **DNHY 301S. DENTAL ANATOMY. 2 Credits.**

**Pre-requisites:** admission to DNHY Program.

The course is a study of tooth anatomy, terminology, morphology and eruption. The following topics are covered: eruption, physiologic tooth form, collective tooth morphology, dental anatomy nomenclature and morphology, root anatomy, wax carvings, and specific anatomical features of selected permanent and primary teeth.

## **DNHY 302S. HISTOLOGY AND EMBRYOLOGY. 2 Credits.**

**Pre-requisites:** admission to DNHY Program.

A detailed study of oral histology and embryology focusing on the development of the face and oral cavity, along with microscopic anatomy of the oral cavity.

## **DNHY 310S. RADIOLOGY. 3 Credits.**

**Pre-requisites:** admission to DNHY Program.

Clinical and physical principles of x-ray production, hazards and safety procedures, with an orientation to oral anatomy and completion of acceptable full-mouth surveys, panoramic, occlusal, periapical, and bitewing radiographs on dental clients of all ages.

## **DNHY 320S. PHARMACOLOGY. 2 Credits.**

**Pre-requisites:** admission to DNHY Program.

This course provides a foundation in the general principles of pharmacology including drug action and uses, physiological and therapeutic effects, classifications, interactions. Emphasis is given to drugs commonly encountered and used in dentistry.

## **DNHY 321S. PERIODONTOLOGY I. 2 Credits.**

**Pre-requisites:** admission to DNHY Program.

A detailed study of the various periodontal diseases, with emphasis on histological and clinical recognition as well as treatment of the diseases.

## **DNHY 330S. PRE-CLINIC. 5 Credits.**

**Pre-requisites:** admission to DNHY Program.

This course introduces the basic principles for clinical dental hygiene treatment using the dental hygiene process of care. Focus is on the integration of didactic and clinical skills.

## **DNHY 341S. MANAGEMENT OF MEDICALLY COMPROMISED. 2 Credits.**

**Pre-requisites:** admission to DNHY Program.

This course covers medical diseases and conditions with emphasis on providing comprehensive client care and management of the medically compromised patients who elect to or require dental care for optimal health and function.

## **DNHY 350S. CLINIC I. 5 Credits.**

**Pre-requisites:** DNHY 330S.

This is the first course in supervised experience in clinical procedures and builds upon pre-clinical learning with emphasis on refining basic skills, acquiring new skills, and using the dental hygiene process of care to provide supervised client care.

## **DNHY 360S. DISEASE PREVENTION STRATEGIES. 2 Credits.**

**Pre-requisites:** admission to DNHY Program.

This course introduces current theories, knowledge, and evidence-based practices of oral health education, nutrition and disease prevention.

## **DNHY 380S. RESTORATIVE DENTISTRY I. 5 Credits.**

**Pre-requisites:** admission to DNHY Program.

This comprehensive lecture and laboratory course provides the dental hygiene student an opportunity to acquire knowledge and skills associated with dental materials and restorative expanded functions specifically the selection, manipulation and placement of dental materials.

## **DNHY 421S. PAIN MANAGEMENT. 3 Credits.**

**Pre-requisites:** admission to DNHY Program.

Lecture/laboratory experiences provide the student an understanding of the history, theory and use of nitrous oxide sedation and local anesthetic agents. Pharmacology, emergency prevention and management, equipment safety, client management, safe administration, client comfort and student-operator decision making are emphasized.

## **DNHY 430S. GENERAL AND ORAL PATHOLOGY. 2 Credits.**

**Pre-requisites:** admission to DNHY Program.

A histopathological study of oral lesions, pathogenic conditions of significance to dentistry and principles of general pathology. Topics include: basic principles of the disease process, overview of systems pathology, cell and tissue responses in inflammation, immunology, cell injury, cell adaptation, wound healing and neoplasia.

## **DNHY 441S. SPECIAL POPULATIONS. 1 Credit.**

**Pre-requisites:** admission to DNHY Program.

This course provides students with specialized knowledge of the physical, mental, medical, social, and dental needs of individuals with a developmental or acquired condition. Students work collaboratively to examine issues including access to care and communication related to special populations across the lifespan.

## **DNHY 442S. PERIODONTOLOGY II. 2 Credits.**

**Pre-requisites:** DNHY 321S.

A continued study of the recognition and treatment of periodontal diseases, with an emphasis on surgical components and advanced periodontal treatments, related to dental hygiene practice.

## **DNHY 450S. CLINIC II. 5 Credits.**

**Pre-requisites:** DNHY 330S.

This second course of supervised experience in clinical procedures builds upon previous learning with emphasis on integrating basic skills, acquiring advanced skills, and synthesizing knowledge through comprehensive case management using the dental hygiene process of care.

## **DNHY 451S. CLINIC III. 5 Credits.**

**Pre-requisites:** DNHY 450S.

This third course of supervised experience in clinical procedures builds upon previous learning with emphasis on refining basic skills, integrating advanced skills, and synthesizing knowledge through comprehensive case management using the dental hygiene process of care.

## **DNHY 452S. CLINIC IV. 5 Credits.**

**Pre-requisites:** DNHY 450S and DNHY 451S.

This fourth course of supervised experience in clinical procedures continues to build upon previous learning with emphasis on mastering basic skills, integrating advanced skills, and synthesizing knowledge through comprehensive case management using the dental hygiene process of care.

**DNHY 454S. STRATEGIES IN RISK AND PRACTICE MANAGEMENT. 2 Credits.**

**Pre-requisites:** admission to DNHY Program.

This course focuses on development of skills to obtain a dental hygiene position, interview styles, setting up a dental practice and identification of potential risks in the delivery of oral care.

**DNHY 460S. DENTAL PUBLIC HEALTH. 2 Credits.**

**Pre-requisites:** admission to DNHY program.

A comprehensive introduction to public health practices including application of the principles, terminology and techniques of community dental health through serving the needs of the community in various settings. First in a two-course series, students complete the assessment and planning phases in developing a community health program.

**DNHY 461S. EXPERIENCES IN DENTAL PUBLIC HEALTH. 2 Credits.**

**Pre-requisites:** DNHY 460S.

This course is the second in a two-semester series in dental public health. Students complete the implementation, evaluation, and documentation phases of program planning of a dental public health program/project. Students engage in public health experiences in collaboration with community partners. Students disseminate dental public health program/project outcomes via a poster presentation at a community engagement symposium.

**DNHY 467S. CAREER STRATEGIES. 1 Credit.**

**Cross-listed:** HSCI 467S.

**Pre-requisites:** acceptance into Dental Hygiene or Health Science.

Students explore alternate career paths and essential skills needed to create a professional development plan related to the diverse roles of the allied health professional.

**DNHY 469S. APPLIED STATISTICS AND EVIDENCE-BASED DECISION MAKING FOR THE HEALTH SCIENCES. 4 Credits.**

**Cross-listed:** HSCI 469S.

**Pre-requisites:** MTHD 104 or MTHD 106 or equivalent logic course approved by the department. Acceptance into Dental Hygiene or Health Science program.

Integration of applied statistics, critical appraisal of research, clinical expertise and client values are examined to formulate evidence-based decisions in providing effective healthcare.

**DNHY 470S. RESEARCH. 2 Credits.**

This course focuses on the basic principles of research and the facilitation of the development of analytical skills for evaluation of professional research. Design of a professional research project relevant to a PICO question is conducted with dissemination via presentation at a regional or national venue.

**DNHY 471S. PRINCIPLES OF RESEARCH AND SCIENTIFIC WRITING. 4 Credits.**

**Cross-listed:** HSCI 471S.

**Pre-requisites:** acceptance into Dental Hygiene or Health Science program.

Basic principles of research and the facilitation of the development of analytical skills for evaluation of professional research culminating in the writing of a scientific research report.

**DNHY 475S. CLINICAL EDUCATION STRATEGIES. 1 Credit.**

**Pre-requisites:** admission to DNHY program.

This course focuses on providing clinical teaching methodology, learning styles and teaching philosophy to a novice educator. Students are assigned teaching opportunities under the direction of the course instructor.

**DNHY 477S. LEADERSHIP AND PROFESSIONAL DEVELOPMENT. 1 Credit.**

**Cross-listed:** HSCI 477S.

**Pre-requisites:** admission into Dental Hygiene or Health Science.

This course focuses on the development of leadership skills and personal attributes needed to fulfill the professional roles of the allied health care professional.

**DNHY 480S. RESTORATIVE DENTISTRY II. 3 Credits.**

**Pre-requisites:** DNHY 380S.

This second course of a three-semester sequence in clinical restorative dental hygiene is comprised of lectures, restorative clinic and laboratory experiences designed to facilitate the student's knowledge of various restorative materials, clinical procedures, and development of restorative manipulative skills.

**DNHY 481S. RESTORATIVE DENTISTRY III. 3 Credits.**

**Pre-requisites:** DNHY 480S.

This is the third semester course of a three-semester sequence in clinical restorative practice. The course is comprised of lectures, restorative clinics, and laboratory experiences, which are designed to facilitate the student's knowledge of various restorative materials and clinical procedures as well as the development of restorative manipulative skills.

**DNHY 484S. PRINCIPLES OF ADVOCACY AND ETHICS. 2 Credits.**

**Pre-requisites:** admission to DNHY program.

This course focuses on the student's exposure to the ethical and legal principles guiding the decision-making and the practice of dental hygiene and their role as a leader in advocacy for the dental hygiene profession.

**DNHY 485S. ORAL HEALTH PROMOTION. 3 Credits.**

**Pre-requisites:** acceptance to the BSDH Degree completion program.

This course focuses on current topics related to oral health affecting changes in global populations.

**DNHY 486S. CONTEMPORARY ISSUES IN DENTAL HYGIENE. 3 Credits.**

**Pre-requisites:** acceptance to the BSDH Degree completion program.

A seminar on various global roles of the dental hygienist, innovations in technology, best practices, science and policy related to the dental hygiene process of care.

**DNHY 487S. PRINCIPLES AND POLICIES OF HEALTHCARE MANAGEMENT. 3 Credits.**

**Cross-listed:** HSCI 487S.

**Pre-requisites:** acceptance into Dental Hygiene or Health Science program.

Management and policy creation for healthcare programs and businesses, specific disciplines in healthcare are discussed according to student needs.

**DNHY 488S. RELATIONSHIP, ETHICS AND COMMUNICATION IN HEALTHCARE. 3 Credits.**

**Cross-listed:** HSCI 488S.

**Pre-requisites:** declared major or minor in Health Science or major in the BS of Dental Hygiene degree completion program.

Overarching themes of cultural diversity and global perspectives are employed in the application of theories and concepts of relationship building, ethics and communication for the healthcare provider.

**DNHY 489S. PRINCIPLES OF DENTAL PUBLIC HEALTH. 3 Credits.**

**Pre-requisites:** acceptance to the Online BSDH Degree completion program.

This course provides an overview of basic public health concepts including epidemiology, policy, cost, well-being, access and global health focusing on the relationship of oral public health to general public health.

**DNHY 490S. DENTAL HYGIENE CAPSTONE. 3 Credits.**

**Pre-requisites:** acceptance to the BSDH degree completion program.

**Satisfies:** a university graduation requirement—senior capstone.

This course incorporates the major learning themes of the dental hygiene curriculum resulting in a student-generated culminating capstone project.

**DNHY 491S. FOUNDATIONS OF CLINICAL EDUCATION. 5 Credits.**

**Cross-listed:** HSCI 491S.

**Pre-requisites:** acceptance into Dental Hygiene or Health Science program.

A foundation course providing fundamental theories, teaching strategies and applications in education and leadership.

**DNHY 492S. EDUCATION/HEALTH PROMOTION PRACTICUM. 3 Credits.**

**Cross-listed:** HSCI 492S.

**Pre-requisites:** DNHY 491S or HSCI 491S.

A practicum experience in didactic, clinical or laboratory instruction integrating leadership, professionalism, ethics, educational theories and teaching strategies, with a focus on assessment and evaluation.

**DNHY 494S. MYTHOLOGY, FOLKLORE AND HEALTHCARE. 4 Credits.**

**Cross-listed:** HSCI 494S.

**Pre-requisites:** ENGL 201, DNHY 470S or HSCI 470S. Declared BS in Dental Hygiene degree completion or declared major or minor in Health Science.

A course offering historical and diverse perspectives on health based on folklore and mythology.

**DNHY 499S. INDEPENDENT STUDY. 1-4 Credits.**

**Pre-requisites:** permission of the instructor, department chair and college dean.

**DNHY 502S. GRADUATE SEMINAR IN HEALTHCARE TECHNOLOGY. 1 Credit.**

**Pre-requisites:** admission to the DNHY graduate program.

This seminar courses focuses on the use of technology in healthcare.

**DNHY 505S. HEALTHCARE LEADERSHIP. 3 Credits.**

Focusing on healthcare providers, this course provides skill building in the critical areas of leadership development. The content develops the leadership skills essential for achieving personal and organizational objectives.

**DNHY 520S. RESEARCH METHODOLOGIES AND SCHOLARLY WRITING. 3 Credits.**

This course provides a foundation in scholarly writing in health research. In the first of two courses in developing a research project, students use electronic databases to search, retrieve, and synthesis evidence-based literature in the process of writing a literature review.

**DNHY 525S. DENTAL HYGIENE RESEARCH SEMINAR. 2 Credits.**

**Pre-requisites:** DNHY 520S.

This is a series of courses in fulfillment of the research project. Under the direction of faculty, students will determine their research project. This project must add to the body of knowledge of dental hygiene and result in a product that can be used in dental hygiene profession.

**DNHY 526S. DENTAL HYGIENE RESEARCH SEMINAR. 2 Credits.**

**Pre-requisites:** DNHY 520S and DNHY 525S.

This is a series of courses in fulfillment of the research project. Under the direction of faculty, students will determine their research project. This project must add to the body of knowledge of dental hygiene and result in a product that can be used in dental hygiene profession.

**DNHY 535S. RESEARCH METHODOLOGIES AND APPLIED STATISTICS. 3 Credits.**

**Pre-requisites:** DNHY 520S.

This course provides a foundation for development of a research project on a chosen topic under the direction of a faculty member. In scholarly writing and research methodologies, students utilize knowledge of research methods and applied statistics to develop a research project prospectus.

**DNHY 557S. ADVANCED LOCAL ANESTHESIA. 1 Credit.**

**Pre-requisites:** admission to the PB Dental Hygiene Practitioner program.

Review of traditional techniques and science of local anesthesia administration followed by advanced procedures including recently introduced or alternative methods requiring non-standard armamentarium. The laboratory component focuses on refining existing skills and developing competency in advanced techniques. Proof of completion of an approved course in local anesthesia and a Washington state license to administer local anesthesia are required.

**DNHY 559S. BASIC RESTORATIVE PROCEDURES. 3 Credits.**

**Pre-requisites:** admission to the PB Dental Hygiene Practitioner program.

This is a comprehensive lecture, clinical, and laboratory course providing students an opportunity to acquire didactic, laboratory, and clinical knowledge associated with properties, selection, placement, and manipulation of dental materials. Topics include cements, bases, and sealers; temporary restorations; rubber dam application; composites and amalgams placement; and polishing amalgams.

**DNHY 570S. ADVANCED HEALTH ASSESSMENT AND DIAGNOSTIC REASONING. 2 Credits.**

**Pre-requisites:** admission to the PB Dental Hygiene Practitioner program.

This didactic and clinical course stresses problem-solving, critical thinking, and clinical judgment in providing a comprehensive, patient-centered approach to assessment, diagnosis, treatment planning, and evaluation within the context a dental collaborative management agreement. The oral-systemic link, socio-cultural, familial, environmental, and developmental influences across the lifespan are considered emphasizing health promotion, disease prevention, and management of common oral health problems.

**DNHY 572S. INTRODUCTION TO OPERATIVE DENTISTRY TECHNIQUE. 5 Credits.**

**Pre-requisites:** admission to the PB Dental Hygiene Practitioner program.

This lecture and laboratory course focuses on developing competency on theoretical and laboratory principles of operative dentistry utilizing direct placement restorative materials in the permanent dentition. In a simulated setting, operative dentistry techniques are applied to restore form, function, and esthetics to diseased teeth including basic principles of cavity preparation and restoration, and appropriate selection and application of direct restorative materials.

**DNHY 575S. PHARMACOLOGICAL PRINCIPLES OF CLINICAL THERAPEUTICS. 2 Credits.**

**Pre-requisites:** admission to the PB Dental Hygiene Practitioner program.

Appropriate care for patients taking medications and delivery of pharmacological therapeutics to complement clinical dental hygiene practitioner care delivery within the scope of practice and collaborative management authorization are covered. Competency development in providing, dispensing, and administering analgesics, anti-inflammatories, and antibiotics are included.

**DNHY 599S. INDEPENDENT STUDY. 1-5 Credits.**

Independent Study.

**DNHY 601S. DNHY GRADUATE PORTFOLIO. 2 Credits.**

This course is the final course in the MSDH curriculum. In this course, the student will demonstrate they have met the competencies set forth by the MSDH program through an e-portfolio. This portfolio will contain academic work, community work and educational evidence of critical thinking, leadership and a global perspective. The eportfolio showcases the students work throughout the curriculum, with evidence demonstrating competency.

**DNHY 605S. COMPONENTS OF PROGRAM DEVELOPMENT. 2 Credits.**

This course offers an overview of general principles of teaching, learning and evaluation in academic and community oral health programs. Emphasis is on dissecting the components of program development (assessment, planning, implementation and evaluation).

**DNHY 610S. HEALTHCARE EDUCATION THEORIES AND INSTRUCTIONAL METHODS. 2 Credits.**

This course introduces evidence-based concepts to prepare the instructor /health promoter for a successful teaching experience. Major themes include learning and teaching styles, learning objective development, lesson planning, assessment strategies and classroom management techniques in traditional, laboratory, online and community settings.

**DNHY 615S. PRINCIPLES OF DENTAL HYGIENE COURSE AND CURRICULUM DESIGN. 3 Credits.**

**Pre-requisites:** DNHY 605S, DNHY 610S.

This course focuses on the study of course and curriculum development, leadership, administrative theories and andragogy unique to the profession of dental hygiene.

**DNHY 620S. SEMINAR ON CONCEPTS OF PUBLIC HEALTH AND HEALTH PROMOTION. 2 Credits.**

In this thematic seminar students use current evidence to engage in discussion on topics related to the roles of advocate and health promoter.

**DNHY 625S. CLINICAL TEACHING STRATEGIES. 2 Credits.**

**Pre-requisites:** DNHY 605S, DNHY 610S.

This course focuses on theories and methods of clinical instruction and supervision, including psychomotor skill development, competency-based evaluation, student mentoring and remediation. Organizational and administrative philosophies in clinical education based on accreditation standards are examined.

**DNHY 630S. SEMINAR ON HEALTHCARE POLICIES AND FINANCE. 2 Credits.**

This thematic seminar provides the student with opportunities to investigate and discuss current literature on healthcare policy and finance.

**DNHY 635S. PRACTICUM. 5 Credits.**

**Notes:** approval required for off-campus sites.

**Pre-requisites:** DNHY 605S, DNHY 610S, DNHY 615S, DNHY 625S.

This course focuses on an individualized learning experience to apply principle and theories in an emphasis area.

**DNHY 640S. SEMINAR ON ADMINISTRATION, MANAGEMENT AND ORGANIZATION. 2 Credits.**

**Pre-requisites:** DNHY 505S, DNHY 615S.

In this thematic seminar, students discuss the relational, operational and analytical skills key to success in administration including the application of leadership, management theory and organizational behavior. Topics include accreditation, quality assurance, policymaking, relationship building, strategic planning, conflict resolution and communication.

**DNHY 660S. COMMUNITY BASED PRIMARY ORAL HEALTH CARE. 5 Credits.**

**Pre-requisites:** admission to the PB Dental Hygiene Practitioner program.

Lecture, laboratory, and clinical experiences furthers concept development and skills building for the dental hygiene practitioner student within the context of advance dental therapy practice noting indications for professional referral to provide comprehensive patient care. Complex amalgam and composite tooth preparations and restorations; pre-formed crown preparations and restorations; provisional restorations; preventive mouthguards; uncomplicated primary and permanent tooth exodontia; and pediatric restorative dentistry, atraumatic restorative dentistry, and pulpotomies are performed in a laboratory setting. Clinical rotations offer practice in behavior management; treatment planning; prevention; restorative care; repair of defective removable prosthetics and soft relines; and space maintenance for pediatric and adolescent patients.

**DNHY 670S. MANAGEMENT OF DENTAL EMERGENCIES AND URGENT CARE. 2 Credits.**

**Pre-requisites:** admission to the PB Dental Hygiene Practitioner program.

This didactic and simulation laboratory course reviews common medical and dental emergencies that may occur in dental settings, as well as, emergency management and prevention protocols. Emphasis is on accurate data collection, analysis, and information processing to develop appropriate action plans resulting in successful outcomes in the management of dental and medical emergencies. Medical emergency simulation laboratory experiences take place in a dental operator.

**DNHY 675S. ADVANCED SPECIALTY FIELDWORK. 2 Credits.**

**Pre-requisites:** admission to the PB Dental Hygiene Practitioner program.

This seminar practicum course enables dental hygiene practitioner students to deliver primary and preventive oral healthcare services to special needs patients in extended campus clinical settings under the guidance of a dentist preceptor. Patient groups encountered may include: pediatrics, geriatrics, medically compromised, patients with genetic and/or acquired disabilities and financially or motivationally impaired patients. Clinical employment of teledentistry, professional referrals/consultations and collaborative management agreements to ensure comprehensive patient care is emphasized.

**DNHY 680S. SUPERVISED COMMUNITY PRACTICUM. 3 Credits.**

**Pre-requisites:** admission to the PB Dental Hygiene Practitioner program.

This practicum and seminar based course offers in-depth dental hygiene practitioner clinical practice experiences of the oral health care practitioner student's choosing. Emphasis is on providing primary and preventive oral health care dental services under the guidance of a dentist preceptor to one of the following underserved populations: pediatric; geriatric; medically; mentally; or psychologically compromised patients; financially and/or motivationally impaired patients. Competent, professional dental treatment requiring consideration outside routine patient methodology and comprehensive management of patient-centered dental problems within the context of advanced dental therapy practice is the course focus.