

# Dental Hygiene (DHYG)

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## Courses

### **DHYG 121 Clinical Dental Hygiene I: Pre-Clinic\* (5 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program.

**Corequisites:** DHYG 125 and DHYG 138 and DHYG 142.

This course will include information and techniques relating to the history, development, current status and future of the profession of dental hygiene. Students will be introduced to fundamental dental hygiene services, instrumentation, client assessment, preventive treatment, transmissible diseases, principles of infection control and prevention.

### **DHYG 125 Developmental Dentistry\* (2 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program.

**Corequisites:** DHYG 121 and DHYG 138 and DHYG 142.

This course will include a study of embryology, oral histology, developmental disturbances of the oral cavity and related structures, dental morphology and occlusion.

### **DHYG 135 Dental Materials\* (2 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 121 with a grade of "C" or higher and DHYG 125 with a grade of "C" or higher and DHYG 138 with a grade of "C" or higher and DHYG 142 with a grade of "C" or higher and SOC 122.

**Corequisites:** DHYG 140 and DHYG 146 and DHYG 148.

This course is designed to provide students with a knowledge base of the science and physical properties of dental materials. Through laboratory exercises, students will have hands-on experience with dental materials used in dental hygiene and dentistry while applying their knowledge of dental material sciences.

### **DHYG 138 Head and Neck Anatomy\* (2 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program.

**Corequisites:** DHYG 121 and DHYG 125 and DHYG 142.

This course is designed to provide dental hygiene students with the basic anatomical foundations to support clinical course work. Topics to be covered include the skull, muscles, and vascular, glandular, lymphatic and nervous systems of the head and neck.

### **DHYG 140 Clinical Dental Hygiene II\* (4 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 121 with a grade of "C" or higher and DHYG 125 with a grade of "C" or higher and DHYG 138 with a grade of "C" or higher and DHYG 142 with a grade of "C" or higher and SOC 122.

**Corequisites:** DHYG 135 and DHYG 146 and DHYG 148.

The course will include clinical application of dental hygiene techniques and instrumentation, oral health products, patient motivation and educational techniques, preventive strategies including use of an intraoral clinic camera, and an introduction to selected dental specialties. Students will be prepared for medical and dental emergencies that may be encountered in various practice settings. An introduction to the dental hygiene process of care (ADPIED) and working with special needs patient populations will be provided.

### **DHYG 142 Dental Radiography\* (2 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program.

**Corequisites:** DHYG 121 and DHYG 125 and DHYG 138.

This course prepares the dental hygiene student to expose, process and critique intra and extra oral radiographs for clinical practice. Emphasis is placed on technique and individual patient radiographic need using standardized As Low As Reasonably Achievable (ALARA) concepts. Students process, mount and evaluate radiographs for diagnostic value associated with patient care. Radiation production, biology and safety are required for students to make informed decisions and adjustments for optimum patient care.

### **DHYG 146 Periodontics\* (3 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 121 with a grade of "C" or higher and DHYG 125 with a grade of "C" or higher and DHYG 138 with a grade of "C" or higher and DHYG 142 with a grade of "C" or higher and SOC 122.

**Corequisites:** DHYG 135 and DHYG 140 and DHYG 148.

Periodontics provides the dental hygiene student with an in-depth study of periodontal disease including the inflammatory process and its relationship to the pathogenesis of periodontal disease, identification of etiological factors, classification of periodontal disease following a complete periodontal assessment, recognition of gingival conditions, risk assessment, description of periodontal surgical procedures, recognition of periodontal emergencies, effectiveness of plaque control, and nonsurgical periodontal therapy.

### **DHYG 148 Dental Health Education\* (2 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 121 with a grade of "C" or higher and DHYG 125 with a grade of "C" or higher and DHYG 138 with a grade of "C" or higher and DHYG 142 with a grade of "C" or higher and SOC 122.

**Corequisites:** DHYG 135 and DHYG 140 and DHYG 146.

This course is designed to provide students with a knowledge base in oral health promotion; disease prevention and control; the scientific research process; evaluation of research articles; goal and objective writing; cultural competency in oral health care; client assessment; evidence based decision making and product evaluation. Students will learn to apply this knowledge using educational methodology for individuals and groups, with special emphasis on behavior modification, compliance, communication and motivation.

**DHYG 221 Clinical Dental Hygiene III\* (6 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 135 with a "C" or higher and DHYG 140 with a "C" or higher and DHYG 146 with a grade of "C" or higher and DHYG 148 with a grade of "C" or higher and BIOL 235 with a grade of "C" or higher.

**Corequisites:** DHYG 225 and DHYG 232 and DHYG 234.

This course provides the dental hygiene student with continued development in the areas of patient management, preventive dental hygiene care and proficiency in clinical techniques through practical application. Selected skills, instrument design variations and current advances in dental hygiene services will also be introduced. The student will be able to develop and implement comprehensive dental hygiene treatment plans to meet the oral health needs and promote total body wellness of each patient. Experiences with patients with special needs in the clinic and the Oral Health on Wheels will enable the student to participate as a change agent and/or patient advocate in the community and adapt to meet the specific needs of these patients.

**DHYG 225 General and Oral Pathology\* (3 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 135 with a "C" or higher and DHYG 140 with a "C" or higher and DHYG 146 with a "C" or higher and DHYG 148 with a "C" or higher and BIOL 235 with a "C" or higher.

**Corequisites:** DHYG 221 and DHYG 232 and DHYG 234.

This course prepares the student dental hygienist to determine when to consult, treat or refer clients with various disease, infection or physiological conditions. Students learn to recognize the signs, causes and implications of common pathological conditions including inflammatory responses, immune disorders, genetic disorders, developmental disorders of tissues and cysts, oral tissue trauma and neoplasm of the oral cavity.

**DHYG 232 Pharmacology for the Dental Hygienist\* (2 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 135 with a "C" or higher and DHYG 140 with a "C" or higher and DHYG 146 with a grade of "C" or higher and DHYG 148 with a grade of "C" or higher and BIOL 235 with a grade of "C" or higher.

**Corequisites:** DHYG 221 and DHYG 225 and DHYG 234.

This course will introduce the basic principles of drug actions, emphasizing dental related therapeutics and drugs associated with common system disorders, information on the selection of professional products.

**DHYG 234 Local Anesthesia for the Dental Hygienist\* (1 Hour)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 135 with a "C" or higher and DHYG 140 with a "C" or higher and DHYG 146 with a grade of "C" or higher and DHYG 148 with a grade of "C" or higher and BIOL 235 with a grade of "C" or higher.

**Corequisites:** DHYG 221 and DHYG 225 and DHYG 232.

This course will concentrate on the principles of local anesthesia administration Upon completion of the course, didactic and clinical proficiency in local anesthesia will meet certification standards set by state dental boards.

**DHYG 240 Dental Public Health\* (2 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 221 with a grade of "C" or higher and DHYG 225 with a grade of "C" or higher and DHYG 232 with a grade of "C" or higher and DHYG 234 with a grade of "C" or higher.

**Corequisites:** DHYG 245 and DHYG 250.

**Prerequisites or corequisites:** COMS 120 or COMS 121 or COMS 125.

This course facilitates the student's development as a responsible leader in public health programs. Topics include public health structure and global public health access, statistical procedures for critiquing scientific literature and epidemiology. Course content includes emphasis on the role of the dental hygienist in community health promotion, assessment, planning, implementation and evaluation using evidence-based research.

**DHYG 245 Nitrous Oxide Analgesia\* (1 Hour)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 221 with a grade of "C" or higher and DHYG 225 with a grade of "C" or higher and DHYG 232 with a grade of "C" or higher and DHYG 234 with a grade of "C" or higher.

**Corequisites:** DHYG 240 and DHYG 250.

**Prerequisites or corequisites:** COMS 120 or COMS 121 or COMS 125.

This course will concentrate on the principles of administering and monitoring nitrous oxide analgesia. Upon completion of the course, didactic and clinical proficiency in nitrous oxide analgesia will meet certification standards set by state dental boards.

**DHYG 250 Clinical Dental Hygiene IV\* (6 Hours)**

**Prerequisites :** Admission to the Dental Hygiene Program and DHYG 221 with a grade of "C" or higher and DHYG 225 with a grade of "C" or higher and DHYG 232 with a grade of "C" or higher and DHYG 234 with a grade of "C" or higher.

**Corequisites:** DHYG 240 and DHYG 245.

**Prerequisites or corequisites:** COMS 120 or COMS 121 or COMS 125.

This course will offer continued development of competencies in clinical techniques and current procedural practices of the dental hygienist with emphasis on self-evaluation. Topics will include ethics, jurisprudence, office management, current dental hygiene issues and preparation for board exams. Experiences with special patients at affiliate sites enable participation as a change agent and/or patient advocate in the community. A continued emphasis in the development and implementation of dental hygiene treatment plans to meet oral health needs and promote total body wellness for consumers. The following are required: CPR recertification, service learning and case study projects. The clinical experience is designed to continue the dental hygiene student's development in total patient care with Program Affiliate Sites. The classroom portion is designed as a seminar atmosphere for the introduction of legal and ethical concepts, practice of management concepts, current practices of dental hygiene and discussion of the roles of a dental hygienist.

**DHYG 291 Independent Study\* (1-7 Hour)**

**Prerequisites :** 2.0 GPA minimum and department approval.

Independent study is a directed, structured learning experience offered as an extension of the regular curriculum. It is intended to allow individual students to broaden their comprehension of the principles of and competencies associated with the discipline or program. Its purpose is to supplement existing courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting, but will be appropriately directed and supervised by regular instructional staff. Total contact hours vary based on the learning experience.