

## DENTAL HYGIENE

### DHYG-110 Head/Neck Anatomy 3 cr.

A study of anatomy and physiology of the head and neck region with an emphasis on the oral cavity. Prerequisites: Admissions into the Dental Hygiene Program. Corequisites: DHYG 112, 113, 114, 115, 217, and enrolled in or completed with a C or above, ENGL 211 or 218. Semester Offered: Fall.

### DHYG-112 Tooth Morphology 1 cr.

The study of the anatomy of human teeth, exfoliation and occlusion. Prerequisites: Admissions into the Dental Hygiene Program. Corequisites: DHYG 110, 113, 114, 115, 217, and enrolled in or completed with a C or above, ENGL 211 or 218. Semester Offered: Fall.

### DHYG-113 Preclinical Dental Seminar 3 cr.

Introductory knowledge, skills and attitudes to function in the clinical setting and be able to continue in clinical dental hygiene courses. Emphasis on scientific principles and current theory, prevention of disease transmission, ethical and professional treatment of patients, clinical preparation and comprehensive care of the patient. Prerequisites: Admissions into the Dental Hygiene Program. Corequisites: DHYG 110, 112, 114, 115, 217, and enrolled in or completed with a C or above, ENGL 211 or 218. Semester Offered: Fall.

### DHYG-114 Preclinical Dental Hygiene 2 cr.

Clinical application of basic theories and procedures used in dental hygiene practice. Emphasis is on the techniques of instrumentation used in performing diagnostic, preventive and therapeutic services utilized in providing comprehensive patient care. The dental hygiene student will practice techniques on manikins and student partners in the clinic. Prerequisites: Admissions into the Dental Hygiene Program. Corequisites: DHYG 110, 112, 113, 115, 217, and enrolled in or completed with a C or above, ENGL 211 or 218. Semester Offered: Fall.

### DHYG-115 Oral Histology and Embryology 2 cr.

Introduction to general histology and embryology with emphasis on the microscopic structures of enamel, dentin, pulp, cementum, periodontal ligament, bone, oral mucosa, epithelial attachment and orofacial structures. Prerequisites: Admissions into the Dental Hygiene Program. Corequisites: DHYG 110, 112, 113, 114, 217, and enrolled in or completed with a C or above, ENGL 211 or 218. Semester Offered: Fall.

### DHYG-217 Dental Radiography 3 cr.

A study of radiation physics, hygiene and safety theories. Emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria and other ancillary radiographic techniques. Prerequisites: Admissions into the Dental Hygiene Program. Corequisites: DHYG 110, 112, 113, 114, 115, and enrolled in or completed with a C or above, ENGL 211 or 218. Semester Offered: Fall.

### DHYG-221 Dental Biomaterials 3 cr.

A study of the composition, chemical and physical properties, manipulation and uses of dental materials. Laboratory experiences include manipulation and application of materials used in dentistry. Prerequisites:

DHYG 223, 224, 227, 231 Corequisites: DHYG 225 and enrolled in or completed with a C or above, HLTH 118. Semester Offered: Summer

### DHYG-223 Clinical Dental Hygiene Seminar I 2 cr.

Continuing development of a theoretical framework of dental hygiene treatment with advancement of dental hygiene proficiency in all areas of dental hygiene treatment. Presentation and discussion of case histories from patients and preventive measures employed against disease concurrent with clinical practice with emphasis on special needs patients. Prerequisites: DHYG 110, 112, 113, 114, 115 and 217. Corequisites: DHYG 224, 227, 231 and enrolled in or completed with a C or above, SPCH 110 or 111. Semester Offered: Spring.

### DHYG-224 Clinical Dental Hygiene I 3 cr.

Introduction to the clinic and patient clinical skills, patient assessment, treatment and appointment scheduling, preventive techniques and application of dental hygiene procedures in the clinical setting. Practical experience is simultaneously related to theory. Direct supervision is provided by the clinical faculty. Prerequisites: DHYG 110, 112, 113, 114, 115 and 217. Corequisites: DHYG 223, 227, 231 and enrolled in or completed with a C or above, SPCH 110 or 111. Semester Offered: Spring.

### DHYG-225 Clinical Dental Hygiene Seminar II 1 cr.

A continuation of clinical skills, patient assessment, treatment, scheduling, preventive techniques and application of dental hygiene procedures at the intermediate level. Work-based instruction that helps students synthesize new knowledge, apply previous knowledge or gain experience managing the workflow. Practical experience is simultaneously related to theory. Direct supervision is provided by the clinical faculty. Prerequisites: DHYG 223, 224, 227, 231 Corequisites: DHYG 221 and enrolled in or completed with a C or above, HLTH 118. Semester Offered: Summer.

### DHYG-227 General and Oral Pathology 3 cr.

An introduction to general and oral pathology with an emphasis on diseases affecting the oral region, including the principles of inflammation and healing; developmental disturbances; the pathology of dental caries; dental and oral abnormalities; bacterial, viral and mycotic diseases; oral injuries and neoplasms. Premalignant lesions and their differences from common benign conditions are emphasized. Prerequisites: DHYG 110, 112, 113, 114, 115, and 217. Corequisites: DHYG 223, 224, 231, and enrolled in or completed with a C or above, SPCH110 or 111. Semester Offered: Spring.

### DHYG-229 Pharmacology 3 cr.

A study of the pharmacological aspects of drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, modes of administration, interactions and effects upon the body systems. Prerequisites: DHYG 221, 225 Corequisites: DHYG 233, 234, 235, 237 and enrolled in or completed with a C or above, SOCI 110. Semester Offered: Fall.

### DHYG-231 Periodontology 3 cr.

A study of the normal and diseased periodontium to include the structural, functional and environmental factors. Emphasis on etiology, pathology, treatment modalities and therapeutic and preventive periodontics

in a contemporary practice setting. Prerequisites: DHYG 110, 112, 113, 114, 115, and 217. Corequisites: DHYG 223, 224, 227, and enrolled in or completed with a C or above, SPCH110 or 111. Semester Offered: Spring.

**DHYG-233 Clinical Dental Hygiene Seminar III** 2 cr.  
Continuing development of a theoretical framework of dental hygiene treatment with advancement of dental hygiene proficiency in all areas of dental hygiene treatment. Presentation and discussion of case histories from patients and preventive measures employed against disease concurrent with clinical practice with emphasis on special needs patients. Prerequisites: DHYG 221, 225. Corequisites: DHYG 229, 234, 235, 237, and enrolled in or completed with a C or above, SOCI 110. Semester Offered: Fall.

**DHYG-234 Clinical Dental Hygiene III** 3 cr.  
A continuation of clinical skills, patient assessments, treatment and appointment scheduling, preventive techniques and application of dental hygiene procedures at the intermediate to advanced level. Work-based instruction that helps students synthesize new knowledge, apply previous knowledge or gain experience managing the workflow. Practical experience is simultaneously related to theory. Direct supervision is provided by the clinical faculty. Prerequisites: DHYG 221, 225 Corequisites: DHYG 229, 233, 235, 237 and enrolled in or completed with a C or above, SOCI 110. Semester Offered: Fall.

**DHYG-235 Dental Public Health** 3 cr.  
Study of the principles and concepts of community public health and dental health education with an emphasis on community assessment, educational planning, implementation and evaluation. Introduction to statistical, scientific review of literature. Laboratory emphasizes methods and materials used in teaching dental health education in various community environments. Prerequisites: DHYG 221, 225 Corequisites: DHYG 229, 233, 234, 237 and enrolled in or completed with a C or above, SOCI 110. Semester Offered: Fall.

**DHYG-237 Local Anesthesia and Pain Control** 2 cr.  
A study of the application of various physical, chemical and psychological modalities to the prevention and treatment of pre-operative and post-operative patient anxiety and pain. Emphasis is placed on dental hygiene administration of local anesthesia and the monitoring of nitrous oxide. Prerequisites: DHYG 221, 225 Corequisites: DHYG 229, 233, 234, 235 and enrolled in or completed with a C or above, SOCI 110. Semester Offered: Fall.

**DHYG-243 Clinical Dental Hygiene Seminar IV** 2 cr.  
A continuation of information to prepare the student for advanced clinical practice. Provides an in-depth study of dental hygiene care for diverse patient populations and provides a forum for evaluation of the service project from Dental Public Health, and synthesis of all dental hygiene knowledge, skills and attitudes into a case presentation. Prerequisites: DHYG 229, 233, 234, 235, 237. Corequisites: DHYG 244, 245, 247 and enrolled in or completed with a C or above PSYC 120. Semester Offered: Spring.

**DHYG-244 Clinical Dental Hygiene IV** 3 cr.  
The clinical sessions combine both basic and advanced dental hygiene

skills with time management techniques essential for private practice. Comprehensive patient care to include assessment, dental hygiene diagnosis, treatment planning, implementation and evaluation of dental hygiene care, nonsurgical periodontal therapy, adjunct clinical procedures, ultrasonic instrumentation, patient management, sealants and comprehensive programs for control of dental diseases will be emphasized. Practical experience is simultaneously related to theory. Course consists of faculty supervised patient treatment in the clinic. Prerequisites: DHYG 229, 233, 234, 235, 237. Corequisites: DHYG 243, 245, 247 and enrolled in or completed with a C or above PSYC 120. Semester Offered: Spring.

**DHYG-245 Principles of Practice** 2 cr.  
Examination of the dental hygienists role in practice settings including dental office management, employment considerations in both traditional and non-traditional settings, the future role of the dental hygienist, resume preparation and job interviewing. Emphasis on the laws governing the practice of dentistry and dental hygiene in New Mexico and the ethical standards established by the dental hygiene profession. Prerequisites: DHYG 229, 233, 234, 235, 237. Corequisites: DHYG 243, 244, 247 and enrolled in or completed with a C or above PSYC 120. Semester Offered: Spring.

**DHYG-247 Practicum** 2 cr.  
The practicum provides the student the opportunity to apply the theory of dental hygiene practice and supervised clinical experience to a practical setting. Prerequisites: DHYG 229, 233, 234, 235, 237. Corequisites: DHYG 243, 244, 245, and enrolled in or completed with a C or above PSYC 120. Semester Offered: Spring.

## DIESEL MECHANICS

**DIME-110 Diesel Engine Overhaul** 9 cr.  
Study of the diesel fueled internal combustion engine. Complete disassembly and reassembly and final tune-up. Diagnosis of system malfunction. Basic failure analysis. Dynamometer testing of engines. Diagnosis and repairs will be performed on various manufacturer equipment and components. Safety will be strictly enforced. Corequisite DIME 111. Semester offered: Fall even numbered years.

**DIME-111 Fuel Systems** 5 cr.  
Study of the theory and operation of diesel fuel injection equipment. Diagnosis and repairs will be performed on various manufacturer equipment and components. Safety will be strictly enforced. Corequisite DIME 110. Semester offered: Fall even numbered years.

**DIME-113 Preventive Maintenance Inspection** 5 cr.  
Study of vehicle/equipment inspections and practices, preventive maintenance scheduling, inspection techniques, pre-and post-repair inspections, and record keeping. Diagnosis and repairs will be performed on various manufacture equipment and components. Safety will be strictly enforced. Semester offered: Fall.

**DIME-123 Brakes** 5 cr.  
Study of the theory and operation of medium and heavy duty truck air brake systems, hydraulic brake systems, retarders and foundation