

# Dental Hygiene (DNT)

## (Dental Hygiene Department)

### DNT 101—Preventive Oral Health Services 1

2 lect., 9 lab, 5 cr. (Fall)

An introduction to the profession of dental hygiene and to the scientific principles of practice are core topics presented in this preclinical course. Didactic concepts and clinical techniques are integrated and applied in laboratory and clinical practice. Fundamental patient assessment procedures, instrumentation skills and infection control protocols are the major foundational concepts presented. These will prepare the novice clinician to begin the provision of dental hygiene services to patients in the clinical setting. [R-1]

Corequisite: CHM 110, DNT 103, CPR certification

Pre/corequisite: BIO 115, ENG 101

### DNT 102—Preventive Oral Health Services 2

2 lect., 9 lab, 5 cr. (Spring)

The emphasis of this course is on the role of the dental hygienist in the care of medically compromised patients or patients whose particular needs require special consideration in clinical practice. The mandated New York State course in Child Abuse Detection and Reporting is also presented. Clinical content includes continued study of the Dental Hygiene Process of Care, with emphasis on Treatment Planning. The clinical experience provides the student with the opportunity to further develop novice level instrumentation skills and assessment techniques. [R-1]

Prerequisite: CPR certification, BIO 115, CHM 110, DNT 101, DNT 103

Corequisite: DNT 104, DNT 106, DNT 108

Pre/corequisite: ENG 102, MLT 106

### DNT 103—Maxillofacial Anatomy and Oral Histology

3 lect., 3 lab, 4 cr. (Fall)

This course includes the study of the anatomy, embryology, histology and function of the structures of the orofacial complex and neck as foundational knowledge for the study of dental hygiene. Detailed anatomy of the teeth and periodontium and of local anesthesia is provided. Other topics include osteology, musculature, circulation, lymphatics, glands, and cranial nerves of the head and neck region.

Corequisite: CHM 110, DNT 101

Pre/corequisite: BIO 115, ENG 101

### DNT 104—Dental Radiology

2 lect., 3 lab, 3 cr. (Spring)

Dental Radiology is the application of the principles of radiology in the study of the teeth and their surrounding structures. The students will study in lecture the history and principles of radiation physics, radiation biology, radiation safety, radiographic quality assurance, image theory, and alternative imaging modalities. The laboratory will provide demonstrations and practical application in the fundamentals of intraoral and extraoral radiographic techniques, processing, mounting and interpretation. Throughout the dental hygiene program, students will continue to integrate both didactic and preclinical skills by practical application in the clinic and extended clinical settings. [R-1]

Prerequisite: BIO 115, CHM 110, DNT 101, DNT 103

Corequisite: DNT 102, DNT 106, DNT 108

Pre/corequisite: ENG 102, MLT 106

### DNT 106—Oral Health Education

2 cr. (Spring)

Students develop skills in health promotion and disease prevention, focused primarily at the clinical, private practice setting. Topics include principles of client education, communication, psychology of oral health care, client management, oral physiotherapy, client assessment for preventive education and treatment, tobacco cessation and prevention, therapeutics and topics in advanced caries prevention. Didactic concepts and clinical application are coordinated with clinical practice. Specific health education/preventive topics are assigned.

Corequisite: DNT 102, DNT 104, DNT 108

Pre/corequisite: ENG 102, MLT 106

### DNT 108—Pharmacology

2 cr. (Spring)

The composition, dosage, therapeutic action, use and effects of drugs related to clinical dentistry and dental hygiene are studied. This course is designed to provide the dental hygiene student with the necessary knowledge of pharmacology to assess for medical

illnesses, adverse reactions and drug interactions that may interfere with dental treatment and oral health care. The dental hygienist will use this knowledge to work in concert with the dentist to provide appropriate therapy to the patient.

Corequisite: DNT 102, DNT 104, DNT 106

Pre/corequisite: ENG 102, MLT 106

## **DNT 110—Pain Management in Dentistry**

2 lect., 2 lab, 2 cr. (Summer I)

This course is designed to teach the management of pain control through the administration of local anesthetic agents and nitrous oxide/oxygen for conscious sedation. Topics for the course include: related anatomy and physiology, behavioral considerations, pharmacology of the drugs including indications/contraindications for their usage and the treatment of possible complications and/or medical emergencies.

Prerequisite: BIO 115, CHM 110, DNT 101, DNT 102, DNT 103, DNT 104, DNT 106, DNT 108, MLT 106, CPR certification

## **DNT 201—Preventive Oral Health Services 3**

1 lect., 15 lab, 5 cr. (Fall)

Advanced dental hygiene theory and skills are presented in this course and integrated into the clinical experience. Periodontal instrumentation skills including ultrasonic scaling, implant care, and advanced assessment procedures are covered. Emphasis is placed on the implementation and evaluation phases of the Dental Hygiene Process of Care. The role of the dental hygienist in the dental specialty areas of prosthodontics and orthodontics is also included. The student will continue to develop clinical skills, advancing towards beginner level. [R-1] Corequisites: DNT 203, DNT 205, DNT 207

Pre/corequisite: BIO 125

## **DNT 202—Preventive Oral Health Services 4**

1 lect., 15 lab, 5 cr. (Spring)

This course is designed to prepare the student to begin dental hygiene practice. The major topics include: Ethical and Legal Considerations of Licensure and Practice, Professional Development and Employment and Practice Management Theory. The clinical experience emphasizes time management and the evaluation phase of the Dental Hygiene Process of Care. Students will continue to develop the knowledge, skills and attitudes necessary to achieve clinical competency. [R-1]

Corequisite: DNT 206

Pre/corequisite: COM 101, PSY 111, SOC 101

## **DNT 203—Oral Pathology**

2 cr. (Fall)

The study of the branches of biologic sciences dealing with the nature of disease, its causes, processes and effects with an emphasis on the manifestations of the disease in the oral cavity. This lecture course integrates both basic and clinical sciences to prepare the dental hygienist to detect, identify, describe and differentiate from normal any abnormalities found in the head and neck region. Corequisites:

DNT 201, DNT 205, DNT 207

Pre/corequisite: BIO 125

## **DNT 205—Periodontology**

2 cr. (Fall)

This course is designed to study the dental specialty of Periodontics and the role of the dental hygienist in the prevention, detection, treatment and maintenance of periodontal diseases. The content of the lectures will be applied to the clinical process of dental hygiene care including assessment, treatment planning, nonsurgical periodontal instrumentation, and evaluation of the periodontium during supportive periodontal therapy. Corequisites: DNT 201, DNT 203, DNT 207

Pre/corequisite: BIO 125

## **DNT 206—Community Dental Health**

1 lect., 3 lab, 2 cr. (Spring)

Students gain understanding of health promotion and disease prevention at the community level. The course focuses on knowledge and skills necessary for various roles in community oral health. Topics include basic epidemiology, assessment tools, dental health education strategies, basic statistical and research concepts, the evaluation of dental literature, application of disease prevention and control principles at the community level, and access to care. Participation in field experience is required.

Corequisite: DNT 202

Pre/corequisite: COM 101, PSY 111, SOC 101

## **DNT 207—Dental Bio-Materials and Advanced Functions**

2 lect., 3 lab, 3 cr. (Fall)

The study of structure, properties, uses, manipulation and care of materials used in the prevention and treatment of oral disease. This course will prepare the student to perform to clinical proficiency those functions recognized by the New York State Dental Practice

Act for Dental Hygienists. Other functions will be limited to conceptual proficiency. Emphasis will be placed upon the development of independent and inter-dependent decision making skills and applications of these skills to the successful manipulation of dental materials.

Corequisite: DNT 201, DNT 203, DNT 205

Pre/corequisite: BIO 125