
 資 料

ミネソタ大学歯学部歯科衛生士教育課程における講義概要

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本号の「歯科医療の変容と米国の歯科衛生士教育」表1-2に示すコース・ディスクリプション抜粋を含むミネソタ大学歯学部の歯科衛生士教育課程における全科目講義概要を補遺のために記す (<http://www1.umn.edu/dental/edprog/hygiene/>; 引用文献番号10)。括弧内は単位数。

Dental Anatomy. (3cr) All deciduous and permanent teeth, including tooth form, function and relationship to oral health; calcification, eruption, and exfoliation patterns; ideal static occlusion; dental terminology and tooth annotation systems. Lab experiences include identification and annotation of teeth and restoration, in wax, of portion of selected typodont teeth

Head and Neck Anatomy. (2cr) Anatomical structures of the head and neck as they relate to dental treatment.

Introduction to Dental Hygienist - Patient Relationships. (3cr) Oral hygiene techniques implemented through communication between patient and oral health provider. Co-therapeutic problem solving.

Cariology. (3cr) Dental caries : etiology, pathology, and prevention.

Periodontology. (3cr) Periodontal disease; etiology, assessment, and treatment options. Clinical experience in root planing and placing periodontal dressings.

The Dental Hygiene Care Process. (6cr) Normal oral structures, assessment of oral health, clinical instrumentation skills. Lecture, lab, clinical experiences.

The Dental Hygiene Care Process : Clinical Application I. (3cr) School of Dentistry Comprehensive Dental Clinics and assessment in dental hygiene care.

The Dental Hygiene Care Process : Clinical Application II. (4cr) Prevention and control of dental caries and periodontal diseases : skill development in ultrasonic scaling and hypertension screening ; evaluation of products used in treating dental caries and periodontal diseases.

Introduction to Biomaterials. (3cr) Physical, chemical, and mechanical properties of materials used in dentistry. Lab.

Dental Specialties. (2cr) Various dental specialties and the dental hygienist's role in services provided.

Applied Nutrition in Dental Hygiene Care. (2cr) Principles of diet and nutrition applied to dental hygiene patient care ; skills for dental caries counseling.

Research Methods in Dental Hygiene. (3cr) Skills in the scientific methods and critical analysis of research findings ; emphasis on types of research, problem selection, hypothesis writing, research planning and design, data collection and measuring techniques, analysis and interpretation of data, and writing the research proposal.

Directed Research. (Cr ar) Individual empirical research project leading to a written report and/or intensive observation/participation in the clinical research center.

Community Outreach. (3cr) Dental hygiene care in a variety of community settings.

Adjunct Clinical Procedures. (2cr) Lab and clinical experiences in the principles and techniques of impression making ; finishing and polishing restorations ; margination ; monitoring ; nitrous oxide sedation ; placing and removing rubber dam ; and placing temporary restorations and pit and fissure sealants.

Ethics, Jurisprudence, and Principles or Practice. (3cr) Employment, economic, and business management aspects of dental practice. Current and extended roles for dental hygienists.

Social, Economic, and Practice Factors in Oral Health. (3cr) Factors and issues related to health care promotion, regulation, and delivery, as well as the political/legislative process as related to current status and trends in dentistry are explored.

Oral Histology and Embryology. (3cr) Embryology and histology of human oral structures as well as other parts of the head and neck. Teeth, mandible, maxilla, palate, tongue, and salivary glands emphasized and correlated with development abnormalities.

General and Oral Pathology. (3cr) Circulatory disturbance, inflammation, and tremors with emphasis on diseases affecting the oral cavity, dental caries, periodontal diseases, oral neoplasias, and similar problems.

The Dental Hygiene Care Process : Clinical Application III. (4cr) Treatment Planning in dental hygiene Care.

The Dental Hygiene Care Process : Clinical Application IV. (4cr) Implementation component of the dental hygiene care process.

The Dental Hygiene Care Process : Clinical Application V. (4cr) Evaluation component of the dental hygiene care process.

The Dental Hygiene Care Process : Clinical Application VI- VII- VIII. (15cr total) Orientation to outreach experiences. Adaptation of dental hygiene care to meet preventive and treatment needs of patient populations in particular outreach assignments. Analysis of patient preventive and treatment needs through case studies/presentations. Students participate in Comprehensive Dental Clinics and outreach assignments.

Dental Hygiene Care for the Pediatric/Orthodontic Patient. (2cr) Knowledge, skills, and attitudes required for providing dental hygiene care for the pediatric/orthodontic patient.

Dental Hygiene Care for the Older Adult Patient. (2cr) Knowledge, Skills, and attitudes required for providing dental hygiene care for the older adult in various states of change associated with aging, with or without concomitant disease.

Dental Hygiene Care for Individuals with Disabilities. (2cr) Knowledge, skills, and attitudes required for providing dental hygiene care for individuals with mental, physical, and social/emotional handicapping conditions.

Oral Radiology I. (2cr) Intraoral and extraoral films and radiographs used in dentistry; descriptions and identification of individual radiographs and intraoral radiographic surveys ; intraoral radiograph mounting and viewing ; radiographic density and contrast ; geometry of image formation ; nature and characteristics of radiographic film ; chemistry of dark room processing techniques ; intraoral radiographic technique ; quality evaluation ; radiographic

anatomy.

Oral Radiology II : Theory and Principles of Radiology. (2cr) Nature of particulate and electromagnetic radiations ; production and control of X – rays; characteristics of radiographic film and image ; mathematics of exposure ; intensifying screens, cassettes, and grids ; stain removal and radiographic density reduction ; radiation biology, dosimetry, law, controversy

Oral Radiology III: Radiographic Analysis. (1cr) Discrepancies and technical errors in intraoral radiographs produced by angle-bisector and paralleling techniques, radiographic anatomy, and radiographic evidence of deviations from the spectrum of normal anatomic variations.

Clinical Oral Radiology. (0cr) Students observe and participate in demonstrations of various radiographic procedures (intraoral and extraoral, including panoramic radiography) to produce acceptable, complete periapical-bitewing radiographic surveys on mounted skulls and patients, process exposed films, qualitatively evaluate their results, mount and interpret their radiographs, and discuss oral radiology topics.

Local Anesthesia and Pain Management. (3cr) Current concerns in the administration of local anesthesia, nitrous oxide analgesia, and other methods of pain management. Client assessment, anatomy, physiology, pharmacology, emergency management, and indications/contraindications for pain management. Emphasis on selection and administration of appropriate anesthetic agents and evaluation of proper techniques. Legal and ethical issues. Laboratory and clinical sessions include actual experiences in administration of local anesthesia and other methods of pain management.

Epidemiology, Prevention, and Dental Public Health. (3cr) Scientific method in dentistry.

Patient Management IV. (1cr per qtr) Educational setting (clinic) for students to integrate, apply, and develop skills in patient management.

Periodontology I Lectures. (2cr) Periodontal anatomy, physiology, and etiology of periodontal diseases. The clinical, histopathological study, and pathogenesis of gingivitis and periodontitis as well as the role of genetics and systemic disorders. Preventive and therapeutic procedures associated with diagnosis, prognosis, treatment planning, and initial phase of periodontal therapy.

Periodontology III Lectures. (2cr) Clinical procedures associated with surgical phase of periodontal therapy. Emphasis on evaluation of periodontal treatment, maintenance phase, relationship between periodontics and other dentistry disciplines, roles and of clinical research in periodontics.

Required Courses Offered by Other Units

Elementary Biochemistry. (4cr)

Writing in the Health Sciences. (4cr) Thoughts, forms, and modes of expression common to health sciences writing.

Microorganisms and Disease. (3cr) Nature of microorganisms, immunology, medical bacteriology, virology, mycology, parasitology, and principles of disease control.

Personal and Community Health. (3cr) Fundamental principles of health conservation and disease prevention.

PHARMACOLOGY. (2cr)

HUMAN PHYSIOLOGY. (5cr)