

DNH 141

Dental Hygiene I

COURSE OUTLINE

Prerequisites:

Admission to the Dental Hygiene Program

Course Description:

DNH 141 introduces clinical knowledge and skills for the performance of dental hygiene treatment; basic skill components, lab typodonts, and patient practice.

Semester Credits: 5 Lecture Hours: 3 Lab Hours: 6

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COURSE OUTCOMES

At the completion of this course, the student should be able to:

1. Apply knowledge and understanding of the basic and clinical sciences in the recognition of oral conditions and prevention of oral diseases.
2. Apply scientific knowledge and skill to all clinical techniques and instructional procedures.
3. Recognize each patient as an individual and adapt techniques and procedures accordingly.
4. Practice safe and efficient clinical routines for the application of Standard Precautions for infection control.
5. Demonstrate professional interaction skills with peers, faculty, and patients.
6. Apply a continuing process of self-development and self-evaluation.

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TEXTBOOKS:

Gehrig, Jill S., Sroda, Rebecca, and Saccuzzo, Darlene, *Fundamentals of Periodontal Instrumentation*, (8th enhanced edition). Lippincott, ISBN: 978-1284456752.

Malamed, Stanley F., *Medical Emergencies in the Dental Office*, (8th Edition). Mosby, ISBN: 978-0323776158.

Virginia Western Community College *Dental Hygiene Student Guidelines and Procedures Manual*, 2023 - 2024.

Boyd, Linda, *Wilkins' Clinical Practice of the Dental Hygienist*, (14th edition). Jones and Bartlett Learning, ISBN-13 978-1284255997

Wynn, et al, *Drug Information Handbook for Dentistry*, (28th edition). Lexicomp, ISBN: 978-1591953920.

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TOPIC DESCRIPTION (LECTURE):

- I. The Professional Dental Hygienist – WEEKS 1 & 2**
 - a. Roles of the Dental Hygienist
 - b. Dental Hygiene Process of Care
 - c. The Code of Ethics
- II. Infection Control - WEEKS 1 & 2**
 - a. Standard Precautions
 - b. Transmissible diseases
 - c. Guidelines for Infection Control in the Dental Health-Care Setting
- III. Exposure Control – WEEKS 1 & 2**
 - a. Barriers for Patient and Clinician
 - i. Personal protective equipment
 - ii. Clinical attire
 - iii. Hand washing principles
 - iv. Immunizations
- IV. Infection Control – WEEKS 1 & 2**
 - a. Clinical Procedures
 - i. Disinfection protocol
 - ii. Sterilization methods
 - iii. Post exposure management
 - iv. Disposal of waste
- V. Medical History – WEEK 3**
- VI. Ergonomic Practice – WEEK 4**
 - a. Patient positioning
 - b. Operator positioning
 - c. Treatment area
- VII. Instrumentation Principles – WEEK 4**
 - a. Grasp
 - b. Fulcrum
 - c. Adaptation
 - d. Angulation
 - e. Stroke
- VIII. Instrument Classifications – WEEK 4**
 - a. Explorers
 - b. Probes
 - c. Mirrors
 - d. Sickles
 - e. Universal Curets
 - f. Area-Specific Curets
- IX. Dental Biofilm and Other Soft Deposits – WEEKS 5 & 6**

- a. Acquired Pellicle
- b. Biofilm Composition
- c. Significance of Biofilm
- X. Biofilm Removal Methods – WEEKS 5 & 6**
 - a. Toothbrush Selection
 - b. Tooth brushing Techniques
- XI. Biofilm Removal Methods – WEEKS 5 & 6**
 - a. Interdental Care
- XII. Calculus – WEEKS 5 & 6**
 - a. Components
 - b. Attachments
 - c. Significance of calculus
- XIII. Oral Examination – WEEK 7**
 - a. Components
 - a. Documentation
 - b. Oral Cancer
 - c. Gingiva
 - d. Occlusion
- XIV. Dental Charting – WEEKS 8 & 9**
 - a. Dental Caries
 - i. Development
 - ii. Classification
 - b. Non-carious Dental Lesions
 - c. Clinical Examination
- XV. Periodontal Charting – WEEKS 9 & 10**
 - a. Gingival and Periodontal Pockets
 - b. Local Contributing Factors in Disease Development
 - c. Periodontal Risk Factors
 - d. Periodontal Probes
 - e. Probing Technique
 - f. Periodontal Assessment
 - i. Clinical Attachment Level
 - ii. Furcation Involvement
 - iii. Mobility
- XVI. Stain Removal – WEEKS 11 & 12**
 - a. Extrinsic Stain
 - b. Intrinsic Stain
 - c. Indications for Stain Removal
 - d. Selective Stain Removal
 - e. Polishing Agents
 - f. Stain Removal Instruments
 - i. Handpiece
 - ii. Air-Powder
 - iii. Porte-Polisher
- XVII. Fluorides – WEEK 12**
 - a. Fluoride Metabolism

- b. Fluoride and Tooth Development
- c. Tooth Surface Fluoride
- d. Fluoridation
- e. Fluoride Benefits
- f. Fluoride Supplements
- g. Professional Fluoride Application
- XVIII. Patient Education – WEEKS 13 & 14**
 - a. Health Promotion and Disease Prevention
 - b. The Learning Process
 - c. Motivation
 - d. Individualized Education
 - e. Education Aids
- XIX. Time Management – WEEK 15**

TOPIC DESCRIPTION (PRE-CLINIC):

Clinic Orientation – WEEKS 1 - 4
Practice Infection Control
Practice Vital Signs
Patient – Operator Positioning

Medical History Assessment – WEEKS 5 – 7
Practice Instrumentation
Instrumentation Assessment
Practice Oral Exam

Oral Exam Assessment – WEEKS 8 - 9
Practice Instrumentation
Instrumentation Assessment
Practice Dental Charting

Adult D. Charting Assessment – WEEKS 10 - 12
Child D. Charting Assessment
Practice Instrumentation
Instrumentation Assessment

Rubber Cup & Fluoride Assessment – WEEKS 13 – 15
Practice Instrumentation
Patient Treatment Assessment
Instrumentation Assessment
Probe Assessment