

Revised: Fall 2019

# 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

Virginia Western Community College

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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.

# DNH 141Dental Hygiene I

## TEXTBOOKS:

Malamed, Stanley F., *Medical Emergencies in the Dental Office*, (7<sup>th</sup> Edition). Mosby, ISBN: 978-0-323-17122-0.

Gehrig, Jill S., Sroda, Rebecca, and Saccuzzo, Darlene, *Fundamentals of Periodontal Instrumentation*, (8<sup>th</sup> edition). Lippincott, ISBN: 978-1-496-32-020-9.

Scheid, R.C. and Weiss, G., *Woelfel's Dental Anatomy*, (9<sup>th</sup> edition). Lippincott, ISBN: 978-1-4963-2022-3.

Virginia Western Community College *Dental Hygiene Student Guidelines and Procedures Manual*, 2019 - 2020.

Wilkins, Esther M., *Clinical Practice of the Dental Hygienist*, (12<sup>th</sup> edition). Rittenhouse, ISBN: 978-1-4511-9311-4.

Wynn, Richard, *Drug Information Handbook for Dentistry*, (21<sup>st</sup> edition.). ISBN: 978-1-5919-5346-3.

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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**

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## 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**