

# Virginia Western Community College

## DNH 141

### Dental Hygiene I

#### **Prerequisites**

Admission to the Dental Hygiene Program

#### **Course Description**

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/Clinical/Internship Hours: 6**

#### **Required Materials**

##### **Textbook:**

Medical Emergencies in the Dental Office. Malamed, Stanley F. 7th Edition. Mosby.  
ISBN: 9780323171220

Oral Soft Tissue Diseases. Newland, Robert J. and Meiller, Timothy F., et al. 6th Edition. LexiComp.  
ISBN: 9781591953265

Fundamentals of Periodontal Instrumentation. Nield-Gehrig, Jill S. and Willmann, Donald E. 8th Edition.  
Lippincott. ISBN: 9781496320209

Woelfel's Dental Anatomy. Scheid, R.C. and Weiss, G. 9th Edition. Lippincott. ISBN: 9781496320223

Virginia Western Community College Dental Hygiene Student Guidelines and Procedures Manual.  
2016 - 2017.

Clinical Practice of the Dental Hygienist. Wilkins, Esther M. 12th Edition. Rittenhouse.  
ISBN: 9781451193114

Active Learning Workbook for Clinical Practice of the Dental Hygienist. Wyche, Charlotte J., Halaris, Jane  
F. and Wilkins, Esther M. 12th Edition. Rittenhouse. ISBN: 9781451195248

Drug Information Handbook for Dentistry. Wynn, Richard. 21st Edition. ISBN: 9781591953463

## **Course Outcomes**

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

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

## **Topical Description**

### **I: The Professional Dental Hygienist**

- Roles of the Dental Hygienist
- Dental Hygiene Process of Care
- The Code of Ethics

### **II: Infection Control**

- Standard Precautions
- Transmissible diseases
- Guidelines for Infection Control in the Dental Health-Care Setting

### **III: Exposure Control**

- Barriers for Patient and Clinician
  - Personal protective equipment
  - Clinical attire
  - Hand washing principles
  - Immunizations

### **IV: Infection Control**

- Clinical Procedures
  - Disinfection protocol
  - Sterilization methods
  - Post exposure management
  - Disposal of waste

### **V: Medical History**

VI: Ergonomic Practice

- Patient positioning
- Operator positioning
- Treatment area

VII: Instrumentation Principles

- Grasp
- Fulcrum
- Adaptation
- Angulation
- Stroke

VIII: Instrument Classifications

- Explorers
- Probes
- Mirrors
- Sickles
- Universal Curets
- Area-Specific Curets

IX: Dental Biofilm and Other Soft Deposits

- Acquired Pellicle
- Biofilm Composition
- Significance of Biofilm

X: Biofilm Removal Methods

- Toothbrush Selection
- Tooth brushing Techniques

XI: Biofilm Removal Methods

- Interdental Care

XII: Calculus

- Components
- Attachments
- Significance of calculus

XIII: Oral Examination

- Components
- Documentation
- Oral Cancer
- Gingiva
- Occlusion

XIV: Dental Charting

- Dental Caries
  - Development
  - Classification
- Non-carious Dental Lesions
- Clinical Examination

XV: Periodontal Charting

- Gingival and Periodontal Pockets
- Local Contributing Factors in Disease Development
- Periodontal Risk Factors
- Periodontal Probes
- Probing Technique
- Periodontal Assessment
  - Clinical Attachment Level
  - Furcation Involvement
  - Mobility

XVI: Stain Removal

- Extrinsic Stain
- Intrinsic Stain
- Indications for Stain Removal
- Selective Stain Removal
- Polishing Agents
- Stain Removal Instruments
  - Handpiece
  - Air-Powder
  - Porte-Polisher

XVII: Fluorides

- Fluoride Metabolism
- Fluoride and Tooth Development
- Tooth Surface Fluoride
- Fluoridation
- Fluoride Benefits
- Fluoride Supplements
- Professional Fluoride Application

XVIII: Patient Education

- Health Promotion and Disease Prevention
- The Learning Process
- Motivation
- Individualized Education
- Education Aids

XIX: Time ManagementPre-Clinic Topics

- **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

**Note to Instructors**