

# Virginia Western Community College

## DNH 226

### Public Health Dental Hygiene I

**Prerequisites:**

None

**Course Description:**

Studies and compares concepts of health care delivery, applying public health delivery model. Utilizes epidemiologic methods, research and biostatistics as applied to oral health program planning, implementation, and evaluation. Incorporates and applies current health issues and trends.

**Semester Credits: 2****Lecture Hours: 2****Lab/Clinical/Internship Hours: 0****Required Materials****Textbook:**

Dental Public Health; Contemporary Practice for the Dental Hygienist. Nathe. 3rd Edition.  
ISBN: 9780135142059

Clinical Practice of the Dental Hygienist. Wilkins. 10th Edition. ISBN: 9780781763226

**Supplementary Materials:**

Dental Hygiene Concepts Cases and Competencies. Mosby. ISBN: 9780323043526  
Journal articles and newspaper articles as posted in Blackboard and/or assigned in class

**Course Outcomes**

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

- Define public health
- Describe the evolution of public health science and practice
- Describe factors affecting dental public health
- Describe the history of dental hygiene in relation to dental public health
- Define the historical development and mission of the American Dental Hygienists' Association
- List and describe the current public health preventive modalities practiced today
- Defend the need for preventive modalities in dental public health practice
- Describe the state of dental health in the United States
- Identify the government agencies related to dental hygiene

- Compare the functions of federal, state, and local government in dental care delivery
- Describe dental workforce issues
- Define need, supply, demand, and utilization
- Identify global oral health challenges and the positioning of dental hygiene care
- Describe the historical perspective of global dental hygiene
- Explain changes in dental hygiene education and work roles
- Explain the challenges of global oral health
- Describe current methods of payment for dental care
- Define and apply terminology associated with financing dental care
- Describe the role of government in financing dental care
- Explain the legislative process in the United States
- Identify the major bodies of law in the United States
- Describe the entity responsible for regulation of the dental hygienist
- Advocate for the utilization of a dental hygienist without restrictive barriers
- Describe the legislative initiatives affecting dental hygienists in the United States
- Promote partnership and coalition development
- Define dental health education and promotion
- Outline the different learning and motivation theories
- Explain the dental hygiene process of care
- Describe the process of lesson plan development
- Identify and describe teaching methods
- Identify the characteristics of an effective teacher
- Develop a lesson plan
- Define target populations to whom dental hygienists may provide services
- Describe faith-based initiatives
- Identify barriers to dental hygiene care
- Describe how cultural values regarding health care can affect oral health habits
- Identify how culture influences the way people communicate
- Define cultural competency and its significance in caring for a culturally diverse population
- Define the dental hygiene process of care program planning paradigm
- Develop a dental public health program plan
- Describe the mechanisms of program evaluation
- Compare qualitative and quantitative evaluation
- Identify various dental indices and define their purposes
- Explain the purpose of dental hygiene research
- Discuss the use of evidenced-based practice in dental hygiene
- Describe the role of ethics in research
- Explain the connection between research and private practice

- Describe various research designs used in oral epidemiology
- Describe methods used to conduct research studies
- Define oral epidemiology and describe the uses of epidemiology
- Relate epidemiology to evidence-based practice
- Define common epidemiologic terms
- List and describe various publications that report oral epidemiology in the United States
- Describe the current epidemiological issues of disease and conditions
- Define and describe data analysis and interpretation
- Identify data by their type and scale of measurement
- Define and describe descriptive, correlation, and inferential statistics
- Select and compute appropriate measure of central tendency and measures of dispersion
- Interpret research results
- Describe how to evaluate dental care products
- Effectively critique dental research reported in dental and lay publications
- Describe dental public health careers
- Define dental hygiene positions in a variety of settings.

## **Topical Description**

### **I: Introduction to Dental Public Health**

- What is public health?
- History of public health
- The Prevention Movement
- Comparison of dental care delivery models
- Public Health Organization
- Local, State, National, International public health organizations

### **II: Service Learning and Dental Hygiene Public Health Programs**

- Dental Health Education and Promotion
- Lesson Plan Development
- Target Populations
- Program Plan Development

### **III: Dental Hygiene Research**

- Epidemiology
- Research
- Biostatistics
- Evaluating Scientific literature

IV: Practical Strategies for Dental Public Health

- Managed Care
- Manpower Issues
- Legislative Initiatives Affecting Dental Hygiene Practice

**Note to Instructors**