

# DENT-2440: COMMUNITY ORAL HEALTH II

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## Cuyahoga Community College

**Viewing: DENT-2440 : Community Oral Health II**

**Board of Trustees:**

March 2023

**Academic Term:**

Fall 2023

**Subject Code**

DENT - Dental Hygiene

**Course Number:**

2440

**Title:**

Community Oral Health II

**Catalog Description:**

Review of concepts introduced in Community Oral Health I. Revision of principles of public health dentistry. Concepts of program planning, epidemiology, and organization of dental care delivery system. Research design as it relates to the planning, implementing, and evaluating a community outreach project. Community service exit requirement for graduation from Dental Hygiene program.

**Credit Hour(s):**

1

**Lecture Hour(s):**

1

## Requisites

**Prerequisite and Corequisite**

DENT-2340 Community Oral Health I.

## Outcomes

**Course Outcome(s):**

Plan, implement and evaluate a dental public health research program.

**Essential Learning Outcome Mapping:**

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Civic Responsibility: Analyze the results of actions and inactions with the likely effects on the larger local and/or global communities.

Written Communication: Demonstrate effective written communication for an intended audience that follows genre/disciplinary conventions that reflect clarity, organization, and editing skills.

Quantitative Reasoning: Analyze problems, including real-world scenarios, through the application of mathematical and numerical concepts and skills, including the interpretation of data, tables, charts, or graphs.

**Objective(s):**

1. Interpret biostatistics data obtained from dental public health research program planning.
2. List and discuss the steps in program planning.
3. Formulate questionnaire (pre and post).
4. Design instructional objectives.
5. Write and implement a lesson plan.
6. Formulate ADPIE (assessment, diagnosis, planning, implementation and evaluation) categories in public health program planning.
7. Assess the oral health needs of a community.

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**Course Outcome(s):**

Utilize various components of successful dental education program in regards to motivation and program design.

**Essential Learning Outcome Mapping:**

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Written Communication: Demonstrate effective written communication for an intended audience that follows genre/disciplinary conventions that reflect clarity, organization, and editing skills.

**Objective(s):**

- a. Compare various learning and motivational theories.
- b. Apply various learning and motivational theories to the development of an oral health education program.

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**Course Outcome(s):**

Evaluate the effectiveness of a dental public health program.

**Essential Learning Outcome Mapping:**

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

**Objective(s):**

1. Analyze various dental indices of oral health and their purposes.
2. Describe the mechanisms of a program evaluation.
3. Research the quality and availability of resources and services within a community.

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**Course Outcome(s):**

Distinguish between the various models of dental practice and dental auxiliaries.

**Objective(s):**

1. Define various forms of financing of dental care along with their advantages and disadvantages.
2. Distinguish the legislation, advocacy, career paths, and strategies in the delivery of dental hygiene services.

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**Course Outcome(s):**

Analyze and interpret cultural differences in the community.

**Objective(s):**

1. Describe cultural values and theories regarding oral health care.
2. Apply the principles of cultural competency relating to interaction with culturally diverse populations.

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**Course Outcome(s):**

Develop a plan including assessment, diagnosis, planning, implementation and evaluation for a simulated target population.

**Essential Learning Outcome Mapping:**

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Written Communication: Demonstrate effective written communication for an intended audience that follows genre/disciplinary conventions that reflect clarity, organization, and editing skills.

**Objective(s):**

1. List and discuss the steps in program planning.
2. Formulate ADPIE (assessment, diagnosis, planning, implementation and evaluation) categories in public health program planning.
3. Assess the oral health needs of a community.
4. Research the quality and availability of resources and services within a community.

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**Course Outcome(s):**

Demonstrate the ability to promote oral health in the community.

**Essential Learning Outcome Mapping:**

Civic Responsibility: Analyze the results of actions and inactions with the likely effects on the larger local and/or global communities.

**Objective(s):**

1. Apply the principles of cultural competency relating to interaction with culturally diverse populations.
2. Complete community outreach activities in 6 areas: service, health fairs, education, special needs populations, committee/ leadership involvement in Student Chapter of American Dental Hygienists Association, and dental hygiene leadership.

**Course Outcome(s):**

Describe the specific approach and necessary modifications to treatment when providing dental hygiene care to patients in alternative settings.

**Objective(s):**

- a. Define alternative settings and give examples of types.
- b. Identify specific types of equipment necessary to provide dental hygiene care to patients in alternative settings.
- c. List adaptations to conventional dental hygiene care plans for patients living in an alternative setting.
- d. List specific oral hygiene instructions for patients who are homebound, bedridden, unconscious or terminally ill.
- e. Explain barriers to access to care for patients that reside in alternative settings.

**Methods of Evaluation:**

- a. Quizzes
- b. Case study
- c. Questionnaire
- d. Lesson plan and objectives
- e. Final written research project report
- f. Community service exit requirement
- g. Examinations

**Course Content Outline:**

- a. Dental Health Education and Promotion
  - i. Models
  - ii. Health Literacy
  - iii. Maslow's hierarchy of needs
  - iv. Motivation Theories
    1. Health Belief Model
    2. Stages of Learning
    3. Transtheoretical Model
    4. Theory of Reasoned Action
    5. Social Cognitive Theory
    6. Sense of Coherence
  - v. Behavior Modification Theories
    1. Operant conditioning
    2. Classical conditioning
    3. Modeling
    4. Motivational Interviewing
- b. Dental public health research program
  - i. Informed consent
  - ii. Biostatistical data
  - iii. Questionnaire (pre and post)
  - iv. Instructional objectives
  - v. Lesson Plan
- c. Program Planning
  - i. Private versus community dental health
  - ii. Dental Hygiene Process of Care

- iii. PRECEDE-PROCEED model
- iv. Seven-Step Model for Assessing Oral Health Needs & Developing Community Needs
- d. Program Evaluation
  - i. Types
    - 1. quantitative vs qualitative
    - 2. clinical vs nonclinical
    - 3. formative vs summative
  - ii. Oral Health indexes
    - 1. desirable characteristics
    - 2. sensitivity vs specificity
    - 3. categories
      - a. simple
      - b. cumulative
      - c. irreversible
      - d. reversible
    - 4. biofilm/oral hygiene
      - a. OHI-S (oral hygiene index-simplified)
      - b. PLI (plaque index)
      - c. PHP (patient hygiene performance index)
      - d. Plaque Control Record
      - e. Plaque-free Score
    - 5. gingivitis/bleeding
      - a. GBI (gingival bleeding index)
      - b. SBI (sulcular bleeding index)
      - c. EIBI (Eastman interdental bleeding index)
      - d. GI (gingival index)
    - 6. periodontal
      - a. PI (periodontal index)
      - b. GPI (gingival-periodontal index)
      - c. PDI (periondontal disease index)
      - d. PSR (periodontal screening & recording)
      - e. CPITN (community periodontal index of treatment needs)
    - 7. caries
      - a. DMFT/DMFS (Decayed, Missing, or Filled Teeth/Decayed, Missing, or Filled Surfaces)
      - b. deft/defs (decayed, extracted or filled teeth/decayed, extracted or filled surface)
      - c. RCI (root caries index)
      - d. CAMBRA (Caries management by risk assessment)
    - 8. miscellaneous
      - a. malocclusion
      - b. fluorosis
  - iii. Government Evaluation
    - 1. National Oral Health Surveillance System
    - 2. Basic Screening Survey
    - 3. National Health & Nutrition Examination Survey
- e. Legislation affecting dental hygiene practice
  - i. public health law
  - ii. branches of government
  - iii. bodies of law
  - iv. state laws passage
  - v. lobbying
  - vi. state dental boards
  - vii. supervision of dental hygienists
- f. Advocacy for Dental Care
  - i. change
  - ii. change agents
  - iii. barriers to change
  - iv. collaborative style
  - v. grants

1. request for proposals
2. features
- g. Provision and Financing of Dental Care
  - i. Methods
    1. Fee for Service
      - a. Usual
      - b. Customary
      - c. Reasonable
      - d. Indemnity Plan
    2. Capitation
      - a. HMO (health maintenance organization)
      - b. advantages/disadvantages
    3. Encounter Plan
    4. Barter System
  - ii. Insurance Plans
    1. dental service corporations
    2. preferred provider organizations
    3. individual practice associations
    4. CDT codes (current dental terminology codes)
    5. explanation of benefits
  - iii. Governmental Programs
    1. block grants
    2. Medicaid
    3. State Children's Health Insurance Program (SCHIP)
    4. COBRA (Consolidated Omnibus Budget Reconciliation Act)
- h. Cultural Competency
  - i. key terms
  - ii. theories
    1. sociocultural theory
    2. zone of proximal development
  - iii. cultural diversity in the US
    1. cross-cultural communication
    2. culture issues in health care
    3. cultural competency
- i. Careers in Dental Public Health & Alternative Practice Settings
  - i. Federal Career Opportunities
    1. Public Health Service
    2. Civil Service - Veteran's Affairs
    3. National Health Service Corps
    4. Military
    5. Federal prisons
    6. Student opportunities (COSTEP - commissioned officer student training extern program)
  - ii. State opportunities
  - iii. Alternative practice opportunities
    1. Types of alternative practice settings
    2. Dental Hygiene care in alternative settings
    3. Preparation for care in alternative settings
- j. Strategies for Creating Dental Hygiene Positions in Dental Public Health Settings
  - i. Legislative perspective
  - ii. Plan of action (ADPIE)
  - iii. Documentation

## Resources

Boyd, L.D., Mallonee, L. F., & Wyche, C. J. . (2020) *Wilkins' Clinical Practice of the Dental Hygienist* , Jones & Bartlett Learning.

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Beatty, C. F. (2021) *Community Oral Health Practice for Dental Hygienist*, St. Louis, MO: Saunders Elsevier.

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Mason, J. (2010) *Concepts in Dental Public Health*, Jones & Bartlett Learning.

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Nathe, C.N. (2017) *Dental Public Health Research: Contemporary Practice for the Dental Hygienist*, Boston: Pearson.

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Spector, R.E. (2016) *Cultural Diversity in Health and Illness*, Upper Saddle River, NJ, Pearson.

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Frantsve-Hawley, J. (2014) *Evidence-based dentistry for the dental hygienist*, Hanover Park, IL: Quintessance.

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Harris, N., Garcia-Godoy, F. & Nathe, C. (2014) *Primary Preventive Dentistry*, Boston: Pearson.

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**Resources Other**

[www.astdd.org](http://catalog.tri-c.edu/www.astdd.org) (http://catalog.tri-c.edu/www.astdd.org)

[www.who.int](http://catalog.tri-c.edu/www.who.int) (http://catalog.tri-c.edu/www.who.int)

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