

Prepared by the Department of Health Sciences

Date of Departmental Approval: January 18, 2018

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Effective: Fall 2018

1. **Course Number:** DEN105
Course Title: Community Dental Health

2. **Description:** Dental Health is the science and art of promoting oral health and preventing oral disease in a community setting. Through this course students acquire knowledge, attitudes, skills and behaviors necessary to promote dental health and prevent disease through organized community based programs. Students are introduced to basic principles of research methodology and biostatistics, epidemiological indices, population needs, and community health planning methods for dental education of the public.

3. **Student Learning Outcomes:** At the completion of this course the student will demonstrate an understanding of the oral health care delivery system, understand basic statistics and indices, and assess and evaluate an oral health community based program. The aim of this course is to prepare the student to promote oral health and prevent oral disease in the community and look beyond the private practice clinical setting.

General Learning Outcomes: At the end of the course the student is expected to:

1. Discuss the historical perspectives of health care in the United States.
2. Discuss the utilization of dental services.
3. Describe the history of dental hygiene in relation to dental public health.
4. Define and differentiate between private health care, public health and community dental health.
5. Identify the components of research design.
6. Define the purpose of dental hygiene research and compare research designs.
7. Define and describe the principles to judge the validity of a trial.
8. Define and describe epidemiology and its relation to dental hygiene.
9. Define related oral epidemiology terms.
10. Define and differentiate between descriptive, analytical and experimental studies.
11. Describe data sampling techniques.
12. Identify the role of host, agent and environment in the disease process.
13. Describe and differentiate between various dental indices.
14. Define statistics and related terms.
15. Define and describe descriptive and inferential statistics.
16. Identify types of scales of measurement.
17. Select and compute appropriate measures of central tendency, range, variance, standard deviation and tests of significance.
18. Describe and construct frequency distributions and graphs.
19. Effectively critique oral health research reported in dental publications.
20. Define appropriate levels of supplemental fluoride for a community.
21. Define the legislative process.
22. Describe the role of the dental hygienist in prevention and control of oral conditions and health in the community.
23. Identify a target population and perform a needs assessment.
24. Identify the influences on dental health such as; knowledge, values, behavior and attitudes.
25. Describe different types of surveys.
26. Describe the process of lesson plan development and develop lesson plans.
27. Define the dental hygiene program paradigm.
28. Develop a dental public health program plan and evaluate the program.
29. Describe the three domains of learning: cognitive, affective and psychomotor.
30. List and describe teaching methods such as lecture, demonstration, discussion, discovery learning, brainstorming, web-based resource, cooperative and collaborative learning.
31. Describe the principles of learning and teaching.
32. Describe methods to evaluate public health education programs.

33. Define the structure of the health care system.
34. Define current methods of payment for dental care.
35. Define and apply terminology associated with financing dental care.
36. Discuss and identify public financing of dental care.
37. Define need, supply, demand and utilization.
38. Discuss and compare dental care in other countries.
39. Define the roles of dental hygienists in other countries.
40. Discuss current public health problems
41. Describe the dental hygienists responsibilities in health care promotion in the U.S.
42. Identify barriers to dental care.
43. Describe dental public health programs such as; Head Start, Operation Smile, Bright Smile and The Smile Train.
44. Identify other career avenues for the dental hygienist.
45. Define and describe terms such as cultural diversity, cross-cultural communication and service learning as well as other terms.
46. Reflect on what was learned and accomplished.

4. Credits: 2 credits

5. Satisfies General Education Requirement: No

6. Prerequisites: DEN 123 (Dental Hygiene II) and DEN 128 (Clinical Dental Hygiene II)

7. Semester(s) Offered: Spring

8. Suggested General Guidelines for Evaluation: The instructor evaluates the students over the course of the semester by written examinations, projects, class participation, self study assignments and an oral presentation. Students must achieve a grade of 75 or better in order to pass this course.

9. General Topical Outline (Optional):

WEEK 1	Course Overview History of public health, utilization of dental services
WEEK 2	Dental literature and components of research design
WEEK 3	Introduction to dental epidemiology
WEEK 4	Indices used for assessing distribution of disease, determinants of Disease
WEEK 5	Research in community dentistry and biostatistics
WEEK 6	Public health measures for prevention and control of dental caries and periodontal disease
WEEK 7	MIDTERM EXAMINATION/Continue with lecture
WEEK 8	Defining the needs of a target population
WEEK 9	Program planning and community health education, principles of teaching & learning
WEEK 10	Program implementation and evaluation, methods of evaluating public health education programs
WEEK 11	Dentistry for special needs, seniors, physically handicapped and mentally retarded populations
WEEK 12	Public health issues of today, smokeless tobacco, infectious hazards, mercury safety
WEEK 13	Dental practice structure, financing of dental care
WEEK 14	The supply of dental personnel, the provision of dental care in Canada

WEEK 15 Reflection seminar

WEEK 16 FINAL EXAMINATION/ESSAY