

MEMORANDUM

DATE: February 16, 2004

TO: Michael T. Nietzel, Provost
Deans, Department Chairs and Members of the University Senate

FROM: Sharon Turner, D.D.S., J.D.
Dean, College of Dentistry

RE: Curriculum Change Proposal

The Curriculum Committee, acting on behalf of the Faculty Council of the College of Dentistry, has approved and submits for your consideration and approval the application for the following course:

Major Course Change

The following course is a required course:

CDE 815 – Fundamentals of Dental Public Health

Description of Course Change: New course description to appear in the University Bulletin; change from one credit hour to two credit hours based on the inclusion of 28 laboratory hours.

Current Contact Hours: 23 lecture hours Proposed Contact Hours: 23 lecture hours and 28 laboratory hours

Current Credit Hours: 1 Proposed Credit hours: 2

Current Course Description: Fundamentals of Dental Public Health is a first-year course designed to increase student knowledge of concepts of dental public health and dental epidemiology that are used in population based (community) health care. Oral health problems in Kentucky and the U.S. will be studied.

Proposed Course Description: Fundamentals of Dental Public Health is a first-year course designed to increase student knowledge of concepts of dental public health and dental epidemiology that are used in population based (community) health care. Oral health problems in Kentucky and the U.S. will be studied. **Students will participate in external public service activities during laboratory sessions. Lecture, 23 hours; laboratory, 28 hours.**

Justification: Community-based student rotations will be added to give students early laboratory experiences.

11. If the course is a 100-200 level course, please submit evidence (e.g., correspondence) that the Community College System has been consulted.
12. Is this a minor change? Yes No
(NOTE: See the description on this form of what constitutes a minor change. Minor changes are sent directly from the Dean of the College to the Chair of the Senate Council. If the latter deems the change not to be minor, it will be sent to the appropriate Council for normal processing.)
13. Within the Department, who should be consulted for further information on the proposed course change?

Name: _____ Phone Extension: _____

Signatures of Approval:

_____	_____
Department Chair	Date
_____	_____
Dean of the College	Date
_____	_____
	Date of Notice to the Faculty
_____	_____
**Undergraduate Council	Date
_____	_____
**Graduate Council	Date
_____	_____
**Academic Council for the Medical Center	Date
_____	_____
**Senate Council	Date of Notice to University Senate

*NOTE: Approval of this change will constitute approval of the program change unless other program modifications are proposed.

**If applicable, as provided by the Rules of the University Senate.

ACTION OTHER THAN APPROVAL

The Minor Change route for courses is provided as a mechanism to make changes in existing courses and is limited to one or more of the following:

- a. change in number within the same hundred series;
- b. editorial change in description which does not imply change in content or emphasis;
- c. editorial change in title which does not imply change in content or emphasis;
- d. change in prerequisite which does not imply change in content or emphasis;
- e. cross-listing of courses under conditions set forth in item 3.0;
- f. correction of typographical errors. [University Senate Rules, Section III - 3.1]

UNIVERSITY OF KENTUCKY
College of Dentistry/Education Program
Course Syllabus
CDE 815 Fundamentals of Dental Public Health

1) General Information

Director:	M. Raynor Mullins	Starting Year / Semester: 2 / 1
Minor Unit:	Public Health Dentistry	Ending Year / Semester: 3 / 2
Designation:	Behavioral/Management Sci	Credit Hours: 1.0
Type:	Required	
Number Enrolled:	54	

2) Purpose

Fundamentals of Dental Public Health (CDE 815) is a first-year course designed to introduce student dentists to the dental specialty of Dental Public Health, to dental epidemiological concepts, terminology, and methods used in population-based health care. Community oral health problems in Kentucky and the United States will be reviewed. Emphasis will be placed on program and outcome evaluation strategies related to the problem of pit and fissure tooth decay (dental caries).

9.01, 9.04, 9.05

3) Goals

1. Knowledge of Common Oral Health Problems: This course will increase student knowledge of common oral health problems from a population (community health perspective).
9.01, 9.04, 9.05
2. Dental Indices: This course will increase student knowledge of outcomes (evidence-based) methods and dental indices for assessing education, care, and prevention programs that address oral health problems.
9.01, 9.02, 9.05
3. Preventive Dental Sealants: This course will increase student knowledge of population-based approaches to prevent dental decay using dental sealants.
9.01, 9.02, 9.05
4. Dental Public Health: To increase the student knowledge of the specialty and practice of Dental Public Health. 9.05

4) Outcomes

1. Public Health vs. Dental Public Health: The student will be able to define public health and dental public health.
2. Core Functions of Public Health: The student will be able to discuss the three core functions of public health.

3. Issue as a Public Health Problem: The student will be able to describe the criteria used to define an issue as a public health problem.
4. Compare Individual and Population Patient Care: The student will be able to describe the six similarities in approach between the care for an individual patient and the care of a population (public health approach).
5. Evaluate Prevalence of Decay in Various Populations: The student will be able to describe how dental indices counting sound, decayed, missing and filled teeth (DMFT, DMFS, and dfs) are used:
 - a. to evaluate the incidence and prevalence of dental decay in population groups; and
 - b. to help define outcome measures to evaluate community-based dental programs
6. Common Oral Health Care Problems: The student will be able to list and describe common oral health care problems in Kentucky.
7. Influences on the Occurrence of Oral Health Problems: The student will be able to discuss the Influence of demographic and socio-economic factors on the occurrence of oral health problems in Kentucky.
8. Differences in Decay Rates Between Kentucky and the U.S.: The student will be able to describe the difference between the Kentucky population and the United States population concerning the occurrence of tooth decay and the loss of teeth.
9. Definition of Terms: The student will be able to define the following terms:

- epidemiology and health care delivery
- Incidence
- Prevalence
- Index
- Protocol
- Program Plan
- Need
- Perceived Need
- Demand
- Potential Demand
- Latent Demand
- Utilization
- Access
- Access Barriers
- Availability
- Dental Care Process

10. Importance of Dental Sealants: The student will be able to discuss the rationale and the importance of the use of dental sealants as a community-based method to prevent tooth decay (dental caries).
11. Pros and Cons of School-Based Programs: The student will be able to describe the advantages and disadvantages of school-based programs to address oral health problems.
12. Family & Youth Resource Centers and KERA: The student will be able to discuss the role and importance of Family and Youth Resource Centers as part of education reform in Kentucky – Kentucky Education Reform Act (KERA).
13. Importance of Oral Health Surveillance and Dental Screening: The student will be able to discuss the importance of oral health surveillance and dental screening in population –based programs.
14. Review a Journal Article: The student will be able to demonstrate how to critically review a journal article reporting results of a dental public health program.
15. Apply Information to Address Community Oral Health Problems: The student will be able to demonstrate how to apply information and methods presented in the course session to address community oral health problems.
16. Geriatric Dentistry: The student will be able to:
 - discuss the oral health challenges of geriatric population.
 - describe how ageist attitudes may impact on the dentist/patient relationship
 - discuss sensory changes that occur among senior citizens and how these influence patient communications.
 - describe communications techniques that enhance understanding by senior patients.
 - describe how ethnicity and socio-economic status influence health and health behavior among older adults.
17. Definition of Terms (Geriatrics): The student will be able to define the following terms:
 - Age Associated
 - Age Dependent
 - Ageism
 - Age Norms

- Aging
- Cohort
- Cohort Effect
- Frail Older Adult
- Functionally Dependent Adult
- Functionally Independent Adult
- Gerontology
- Geriatrics
- Geriatric Dentistry
- Life Span
- Longevity
- Presbyopia
- Presbycusis
- Presbycusis
- Successful Aging
- Usual Aging

5) Learning Resources

1. Dentistry, Dental Practice and the Community

(Primary Resource)	(Required Text)
Resource Type:	Book
Primary Author:	Burt, B.A.
Secondary Author:	Eklund, S.A.
Publishing House:	W.B. Saunders Company
City, Country:	Philadelphia, PA
Edition/Version#:	5 th
Year Published:	1999

2. Video Resources (Geriatric Dentistry Experience) (to be placed on reserve)

- A. Oral Health Care For The Dependent Patient (Produced by West Virginia School of Dentistry)
- B. Patient Education Videos From American Dental Association
 - Taking Care of Teeth and Gums
 - Periodontal Disease
 - Tooth Extraction
 - Root Canal
 - Bridges
 - Enamel Reshaping
 - Veneers
 - Bonding
 - Skills of Daily Mouth Care

6) Evaluation Methods Overview

40%	Fall Examination	A Grade = 90% or higher average
30%	Fall Assignments	B+ Grade = 85% to 89% average

30%	Spring Assignments/Projects	B Grade = 75% to 84% average
<hr/>		C Grade = 65% to 74% average
100%		E Grade = 64% or less

Other Evaluation Requirements for A, B+, B, or C Grade

- Satisfactory completion of competency component of fall examination
- Satisfactory attendance and participation in course sessions and community-based educational experiences.
- Satisfactory completion of community-based experiences.

7) Policy and Procedures

Format and Schedule (see attached schedule)

This course will be organized as follows:

- Course Introduction and Overview
- Community-Based Experience Orientation(s)
- Fall – “Seal Kentucky”
- Spring – “Geriatric Dentistry”
- Community-Based Dental Experiences/Projects
- Community-Based Experience Orientation(s)
- Fall – “Seal Kentucky”
- Spring – “Geriatric Dentistry”
- Directed Readings
- Directed Assignments/Projects
- Special Public Health sessions: Guest Lecturers
- Fall Take-Home Examinations

Evaluation

Since a major portion of this course involves participation in community-based learning experiences and in preparatory sessions for these experiences, attendance at all course sessions is expected (required). Any absences must be approved in advance by Dr. Mullins, Course Director. Attendance will be monitored.

Dr. Mullins’ email address is: mraynor@email.uky.edu

Please note the offices of the Division of Dental Public Health are located at: 333 Waller Avenue, Suite 101, Lexington, KY 40504 and are not in the Chandler Medical Center complex. Dr. Mullins’ voice mailbox is (859)-323-6444. The Division office number is (859) 323-6400. Division staff contact at the Waller office is Vicky Rohall.

Evaluation Components

- Examination
- Assignments
- Projects
- Attendance and participation in course sessions

- Attendance and satisfactory completion of community-based experiences

The College of Dentistry uses the following grading system. Policy: An A, B+, or B grade is within the expected range of performance. A C grade is a marginal level of performance. To remain in good academic standing and to graduate, a student must maintain a grade point average of 2.75 or more. Student performance will be reported to the Registrar's Office for CDE 814, Fundamentals of Dental Public Health, as follows:

- **A** – represents **exceptionally high level** of performance. Four (4) quality points are awarded. Grade is attained by achieving a cumulative score of 90% or better on examinations, projects and assignments; attendance record is acceptable to the course director; and, community experiences are completed at an acceptable level by the consensus of the faculty supervising the experience.
- **B+** – represents **high level** of performance. Three and one-half (3 ½) quality points are awarded. Grade is attained by achieving a cumulative score of 85% to 89% on examinations, projects and assignments; attendance record is acceptable to the course director; and, community experiences are completed at an acceptable level by the consensus of the faculty supervising the experience.
- **B** – represents the **minimal expected** level of performance. Three (3) quality points are awarded. Grade is attained by achieving a cumulative score of 75% to 84% on examinations, projects and assignments; attendance record is acceptable to the course director; and, community experiences are completed at an acceptable level by the consensus of the faculty supervising the experience.
- **C** – represents a **marginal** level of performance. Two (2) quality points are awarded. Grade is attained by achieving a cumulative score of 74% to 65% on examinations, projects and assignments; attendance record is acceptable to the course director; and, community experiences are completed at an acceptable level by the consensus of the faculty supervising the experience.
- **E** – represents an **unacceptable** level of performance. Zero (0) quality points are awarded. Grade is attained by achieving a cumulative score of 64% or less on examinations, projects and assignments; attendance may or may not be acceptable to the course director; and, community experiences may be completed at an

acceptable or unacceptable level by the consensus of the faculty supervising the experience.

Remediation

All student dentists who attain a grade of **E or C** on any examination, assignment or the sealant experience will be notified and immediate remediation will be offered. Remediation may take the form of additional graded assignments, re-examination, or face-to-face pertinent sessions with the course director—the decision regarding the form that remediation will be made through negotiation and mutual agreement of the course director and the student dentist. Remediation must be completed within 30 days of the due date for the final examination.

College Code

All assignments, experiences, and examinations (all activities) in CDE 815 are conducted under the College Code. The Faculty of the College has high expectations of each student dentist concerning his/her professional and academic responsibilities, including self-governance. Please review your copy of the College Code. If you have questions or concerns about expected standards of behavior, it is your responsibility to discuss and clarify these questions with the Course Director, Dr. Mullins.

8) Instructional Sessions

Session 001 Introduction to Dental Public Health: Course

Overview

1) General Information

Date: Wednesday, September 10th, 9-10 a.m., MN 563

Faculty: M. Raynor Mullins

2) Content Outline

- Syllabus Course Policies and Procedures
- Introduction to Dental Public Health
- Overview of Community-based Experiences

3) Keywords

Syllabus, Policies, Procedures, Dental Public Health, Dental Sealants, Prevention, Dental Epidemiology, Review of Dental Literature

Session 002: Introduction to Children's Oral Health

1) General Information

Date: Wednesday, September 17th, 1-5 p.m., Kentucky Inn, Waller Avenue

Faculty: M. Raynor Mullins, David Hardison, Gerald Ferretti,
David Nash, Judy Skelton, James Cecil

2) Content Outline

- Community Health Method
- Children's Oral Health in Kentucky
- 2000 Kentucky Children's Oral Health Survey
- Early Childhood Caries (ECC)
- Coordinated School Health Initiative in Kentucky
- Clinical Management of Child Dental Patient
- Patient Education
- Medicaid
- Kentucky Children's Health Insurance Program (KCHIP)

3) Keywords

Community Health Method, Children Oral Health, Dental Survey, School Health, Dental Health Education, Behavioral Child Management, Children's Dental Insurance

Session 003: Orientation for "Seal Kentucky"

1) General Information

Date(s): Wednesday, October 1st, 1-5 p.m., Kentucky Inn, Waller Avenue

Group One: 1-3 p.m. (Students assigned for Whitley County and Harlan County "Seal Kentucky" trips)

Group Two: 3-5 p.m. (Students assigned for Johnson County and Lewis County "Seal Kentucky" trips)

Faculty: M. Raynor Mullins, James Cecil, Gerald Ferretti, David Hardison, Sharlee Shirley and Judy Skelton

2) Content Outline

- Review of Clinical Protocol, Question and Answer
- Infection Control Methods Reviewed
- Clinical Demonstration of Patient Greeting, Seating, Dismissal

- Clinical Demonstration of Portable Dental Equipment Use and Cleanup
- Instructions for “Seal Kentucky”

3) **Keywords**

Dental Sealants, School Programs, Patient Education, Dental Epidemiology, Dental Screening, Oral Health Surveillance

Session 004: “Seal Kentucky” Community Experience

Group One: Harlan County
October 5-7

Session 005: “Seal Kentucky” Community Experience

Group Two: Whitley County
October 12-14

Session 006: “Seal Kentucky” Community Experience

Group Three: Johnson County
October 19-21

Session 007: “Seal Kentucky” Community Experience

Group Four: Lewis County
October 26-28

Sessions 004-007

1) **General Information**

Date(s): (see above—each student must complete one “Seal Kentucky” Experience)

Faculty: Raynor Mullins and Faculty/Staff “Seal Kentucky” Team

2) **Content Outline**

- Clinical and patient education experience with a school-based dental sealant program.

3) **Keywords**

Dental Sealants, School Programs, Patient Education, Dental Epidemiology, Dental Screening, Oral Health Surveillance

Sessions 008, 009,010,011 Post seminars for “Seal Kentucky”

1) **General Information**

Date(s): Harlan County Group
Friday, October 10th, 10 a.m.—12 Noon, (MN 363)

Whitley County Group
Friday, October 17th, 10 a.m.—12 Noon (MN363)

Johnson County Group
Friday, October 24th, 10 a.m.—12 Noon (MN 363)

Lewis County Group
Friday, October 31st, 8 a.m.—10 a.m. (MN 363)

Faculty: M. Raynor Mullins

2) **Content Outline**

- Public Health in Kentucky
- Community Dental Programs
- Program Planning
- Dental Epidemiology
- Dental Access
- Medical (Dental) Care Process

3) **Keywords**

Program Planning, Survey, Indices, Access, Availability, Access Barriers, Social Justice, Core Public Health Functions, Dental Care Process

Session 012

1) **General Information**

Date: Thursday, November 6th, 10 a.m.—Noon

Faculty: Robert Henry, Judy Skelton and Raynor Mullins

2) **Content Outline**

- Introduction to Geriatrics
- Introduction to Geriatric Dentistry
- Communicating with Senior Citizens

3) **Keywords**

Geriatrics, Geriatric Dentistry, Ageism, Aging

Session 013

1) **General Instruction**

Date: Friday, November 7th
8 a.m.—9 a.m. (MN 263)

Faculty: Raynor Mullins

2) **Content Outline:** Instructions and Distribution of Take-Home Examination

3) **Keywords**

Course Examination

SPRING 2004 COURSE SESSIONS

SPRING COURSE ACTIVITIES AND ASSIGNMENTS FOR CDE 815 WILL INVOLVE COMMUNITY-BASED EXPERIENCES WITH SENIOR CITIZENS AND SPECIAL PUBLIC HEALTH SESSIONS WITH GUEST SPEAKERS.

Session 014

1) **General Information**

Date: Thursday, January 22nd, 8 a.m.—Noon
VA Auditorium

Faculty:

2) **Content Outline:** Preparation for Elder Rotation

3) **Keywords**

Session 015

1) **General Information**

Date: Monday, January 26th, 8 a.m.—Noon

Faculty:

2) **Content Outline:** Visit Elder Residential Facilities

3) **Keywords**

Session 016

1) **General Information**

Date: Monday, February 2nd, 8 a.m.--Noon

Faculty:

2) **Content Outline:** Visit Elder Residential Facilities

3) **Keywords**

Session 017

1) **General Information**

Date: Monday, February 9th, 8 a.m.--Noon

Faculty:

2) **Content Outline:** Visit Elder Residential Facilities

3) **Keywords**

Session 018

1) **General Information**

Date: Monday, February 16th, 8 a.m.—Noon
VA Auditorium

Faculty:

2) **Content Outline:** Debrief and Presentations

3) **Keywords**

Session 019

1) **General Information**

Date: Monday, February 23rd, 8—9 a.m.
Where

Faculty:

2) **Content Outline:** Final Examination

3) **Keywords:** Examination