

# Preventive and Community Dentistry

## Head

- Leonardo Marchini

**Graduate degree:** MS in dental public health

**Faculty:** <https://dentistry.uiowa.edu/directory>

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## Courses

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## Preventive and Community Dentistry Courses

### **PCD:8115 Patient Management: Ethics and Interprofessional Education** 1 s.h.

Preparation to deliver team-based interprofessional care through authentic lectures and group activities that reinforce interprofessional education (IPE) concepts by providing relevant and applicable health care experience; concepts and skills related to interprofessional education, team-based health care, interprofessional networking, ethics and professionalism, and person-centered care.

### **PCD:8116 Preventive Dentistry: Introduction** 2 s.h.

Identification of health and disease in the mouth through self-assessment, nutritional self-assessment, practical methods of disease control, primary preventive dentistry methods and materials, and philosophy of preventive dentistry.

### **PCD:8117 Cariology and Preventive Therapies** 2 s.h.

Principles of research design; introduction to microbiology and immunology; principles of oral microbiology with an emphasis on plaque development; microbiology of caries; coronal and root caries disease processes; dental caries epidemiology; roles of saliva and diet in dental health and disease; radiographic interpretation and clinical diagnosis; dental fluorosis; preventive dentistry treatment planning. Prerequisites: PCD:8116.

### **PCD:8118 Preventive Dentistry Assessment and Patient Care** 4 s.h.

Patient oral assessment; charting sulcus depth, recession and hard tissues; progress notes, and entries in electronic patient record; preventive dentistry, caries, and periodontal risk assessment; oral hygiene instruction for collegiate recall patients; instrumentation for detection and removal of calculus deposits; practice with patient management skills and ergonomics. Prerequisites: PCD:8116 and PCD:8117.

### **PCD:8119 Patient Management: Communication Fundamentals** 1 s.h.

Introduction to patient-centered care, interpersonal and professional communication with patient, information exchange, and preventive treatment plan formulation in patient encounters.

### **PCD:8120 Introduction to Evidence-Based Dentistry I** 1 s.h.

Fundamental concepts needed to critique clinical research articles and health-related websites.

### **PCD:8121 Introduction to Evidence-Based Dentistry II** 1 s.h.

Application of concepts needed to critique scientific literature.

### **PCD:8218 Critical Thinking and Evidence-Based Dentistry in Treatment Planning** 1 s.h.

Continuation of PCD:8120; evidence-based dentistry, critical thinking and treatment planning sessions; online and small group sessions. Prerequisites: PCD:8120.

### **PCD:8219 Patient Management: Communication Challenges** 1 s.h.

Continuation of PCD:8119; assessing patient understanding of practices for improving/maintaining oral health; overview of patient challenges to effective communication; application of behavioral science principles in dentistry and behavior theories. Prerequisites: PCD:8119.

### **PCD:8245 Clinical Preventive Dentistry** 0,2 s.h.

Experience providing complete prophylaxis and preventive services for college patients; application of nutrition principles and communication skills in a clinic setting. Prerequisites: PCD:8118.

### **PCD:8319 Patient Management: Special Populations** 1 s.h.

Continuation of PCD:8219; standardized patient exercises with chairside feedback and evaluation of communication skills; reflection regarding application of communication skills and behavioral science principles in patient encounters.

### **PCD:8355 Introduction to Geriatric Dentistry** 2 s.h.

Biological, psychological, and social aspects of aging; normal aging and disease processes associated with aging; pathological changes that affect oral health treatment of dental diseases; and patient-centered treatment planning and management. Requirements: DDS enrollment or completion of dental hygiene program.

### **PCD:8360 The Practice of Dentistry in the Community I** 1-2 s.h.

Factors that affect the practice of dentistry and the dental profession including health care systems in the U.S. and abroad, Medicaid/Medicare, health/dental insurance, health care delivery systems, malpractice, role of the Iowa Dental Board, dental workforce, and quality of care.

### **PCD:8361 The Practice of Dentistry in the Community II** 1-2 s.h.

Issues related to the role of dental professionals at local and state levels; students build skills and knowledge in development of a community outreach dental program.

### **PCD:8489 Geriatrics and Special Needs Program** arr.

Experience in the Delta Dental of Iowa Geriatric and Special Needs Clinic and the Geriatric Mobile Dental Unit providing comprehensive care for medically, physically, intellectually, and/or cognitively compromised adults, functionally dependent elderly nursing home residents with portable dental equipment, and other underserved populations.

### **PCD:8494 Extramural Rotation in Oral Health** 5 s.h.

Dental care for underserved populations; community experiences in a variety of settings including hospital-based clinics, federally qualified health centers, community health centers, and private practices.

### **PCD:8500 Dental Student Research Honors Program** arr.

Experience in conducting research. Requirements: DDS enrollment and approval of mentor and program director.

## Dental Public Health Courses

**DPH:5000 Introduction to Dental Public Health** 0,2 s.h.  
Science, philosophy, practice of dental public health.

**DPH:5001 Literature Review Methods: Dental Public Health** 0,2 s.h.  
Concepts and process of literature review, particularly in area of student's interest.

**DPH:5005 Administration of Public Dental Programs** 0,2 s.h.  
Application of general management concepts; practical aspects of planning, financing, staffing, implementing, operating, evaluating dental public health programs at federal, state, local levels.

**DPH:5006 Preventive Programs in Dental Public Health** 0,2 s.h.  
Prevention and control methods for major dental conditions, primarily dental caries and periodontal diseases; clinical efficacy and cost-effectiveness; development of comprehensive preventive oral health plan for a community.

**DPH:5008 Field Experience in Dental Public Health** arr.  
Arranged with public and voluntary health agencies according to students' and agencies' needs.

**DPH:5009 Advanced Field Experience in Dental Public Health** 1-3 s.h.  
Opportunity to research, develop, and implement programmatic objectives with local, state, national, and/or federal agencies and organizations on an issue that is both relevant to the student and the agency; may require off-site visits to agencies or organizations. Prerequisites: DPH:5008.

**DPH:5014 Dental Care Policy and Financing** 0,2 s.h.  
Dental financing and policy issues: payment mechanisms for health care service providers, third-party prepayment plans, salaried and public-financed programs, Medicaid and Medicare programs, dental insurance systems, and care of the underserved.

**DPH:5016 Introduction to Statistical Computing** arr.  
Use of statistical packages on a personal computer for data management and analysis. Offered summer session.

**DPH:5031 Geriatric Care** 0,2 s.h.  
Aging demographics; effects of aging on the human body with emphasis on the masticatory system; diseases commonly found among the elderly; and dental care for the elderly in different settings.

**DPH:6002 Research Protocol Seminar** 0,2 s.h.  
Development of a master's thesis protocol; identification of thesis topic, review of relevant literature, development of research methods, writing.

**DPH:6003 Independent Study: Dental Public Health** 1-3 s.h.

**DPH:6004 Principles of Oral Epidemiology** 0-3 s.h.  
Interpretation of scientific literature, with respect to the distribution and determinants of oral diseases and conditions, including caries, periodontal diseases, tooth loss, oral cancer, and more.

**DPH:6011 Thesis: Dental Public Health** arr.  
Protocol preparation; data collection, analysis, organization; writing, defense of research.

**DPH:6017 Teaching Methods and Evaluation** arr.  
Philosophies of dental education, teaching methodologies, evaluation; focus on learning to write educational objectives, writing and analyzing exam items.

**DPH:6018 Clinical Teaching Practicum: Preventive Dentistry** 0-3 s.h.

Teaching experience in preventive dentistry clinic setting with first-year dental students; outcomes focused on methods in clinical teaching, evaluation, and remediation.