# Preventive and Community Dentistry

**Head**
- Daniel J. Caplan

**Director, Graduate Program**
- John J. Warren

**Graduate degree:** M.S. in dental public health

**Faculty:** https://www.dentistry.uiowa.edu/preventive-faculty

**Website:** https://www.dentistry.uiowa.edu/preventive

## Courses

- Preventive and Community Dentistry Courses [p. 1]
- Dental Public Health Courses [p. 2]

### Preventive and Community Dentistry Courses

- **PCD:8115 Clinical Practice and Professionalism I** 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 Fundamentals of Preventive Dentistry** 1 s.h.

- **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 Clinical Practice and Professionalism II** 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:81218 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 Clinical Practice and Professionalism III** 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 Clinical Practice and Professionalism IV** 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 management. Requirements: D.D.S. enrollment or completion of dental hygiene program. Same as ASP:8355.

- **PCD:8360 The Practice of Dentistry in the Community I** 1-2 s.h.
  Issues related to role of dental professional at local and state levels; students build skills and knowledge in development of a community outreach dental program.

- **PCD:8361 The Practice of Dentistry in the Community II** 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:8485 Broadlawns Medical Center** 4 s.h.
  Dental care to low-income patients in a metropolitan hospital-based clinic; community-related assignments; student team experience in Des Moines.

- **PCD:8488 St. Luke's Dental Health Center** 4 s.h.
  Experience providing clinical and outreach services for low-income children and adults with developmental disabilities at St. Luke's Hospital, Cedar Rapids; operative and behavioral dental problems, hospital protocol, special needs of low-socioeconomic clients.

- **PCD:8489 Geriatrics and Special Needs Program** 4 s.h.
  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 Oral Health Field Clinic** 5 s.h.
  Extramural experiences developed according to student needs, extramural opportunities.
PCD:8500 Dental Student Research Honors Program
Experience in conducting research. Requirements: D.D.S. 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.

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.