

Public Health (PBH)

PBH 317 Introduction to Public Health 3 Hours

Overview and basic principles of public health, including the public health system, concepts and tools for measuring health in populations, the relationship between public health and the medical care system, and the role of law and government in public health.

PBH 119S, 219S, 319S, 419S, 519S, 619S, 719S, 819S, 919S Topics in Public Health 1-9 Hours

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the study abroad adviser in the School of Human Ecology. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program.

PBH 320 Topics in Health Informatics and Health Information Technology 3 Hours

Concepts, theories, and issues in health informatics and health information technology.

PBH 320.1 Introduction to Health Informatics and Healthcare Analytics 3 Hours

Consists of didactic lectures about the theoretical foundations of health informatics, database theory and management, healthcare standards, medical decision making, and healthcare analytics. Includes four hands-on workshops that relate to subjects taught in this course: HL7, SQL, Microsoft Excel, Microsoft Access, and Tableau. Also includes a research project over a six-eight week time period, production of a professional poster, and a presentation in a research poster forum judged by faculty, industry representatives, healthcare professionals, and policy makers.

PBH 320.2 Fundamentals of Health Information Technology 3 Hours

Explores healthcare policy (including privacy and security), current technologies (telemedicine, hospital information systems and computer and networking technologies) and the interoperable exchange of healthcare data.

PBH 320.3 Project Management, Process Redesign and Quality Improvement 3 Hours

Explores the basics of project management, including requests for proposals, scope, project planning, budgets and deliverables. Also discussed is an analysis of workflow processes and the impact of technology to improve these processes. Quality improvement, including tools to improve quality, is also presented. Includes several individual assignments and one team project.

PBH 320.4 Operational Models of Healthcare Systems 3 Hours

Explores the complex United States (US) health care system and explains the manner by which health care is delivered along a continuum of care. A special emphasis is placed on the operational delivery of ambulatory care and the manner in which acute care facilities are evolving. Subjects include a comparison of the US health care system to health care delivery in other countries, population health and health care finance/insurance - including discussion on public (Medicare and Medicaid) and private (Managed Care) coverage. Descriptions of current and emerging payment mechanisms, revenue cycle management, risk management, overhead reduction and practice management are covered in detail to allow students a robust understanding of business issues associated with health care delivery.

PBH 320.5 Technology Competencies in Health Informatics and Health Information Technology 3 Hours

Hands-on laboratory, team-taught by program faculty and staff with support from industry partners. Utilization of multiple health informatics and health information technology systems, health information exchange and interoperability software, and key analytics tools. This laboratory builds upon concepts taught in Public Health 320, Topic 1 and Public Health 320, Topic 2.

PBH 320.6 Practicum and Professional Development in Health Informatics and Health IT 3 Hours

Professional development lectures, activities, and a ten-day practicum experience off campus to experience working with industry, healthcare systems, policy makers, and other experts in the field.

PBH 323 Introduction to Health Informatics 3 Hours

Introduces theoretical foundations of health informatics, database theory and management, healthcare standards, and medical decision making.

PBH 129S, 229S, 329S, 429S, 529S, 629S, 729S, 829S, 929S Topics in Public Health 1-9 Hours

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the study abroad adviser in the School of Human Ecology. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program.

PBH 330 Topics in Public Health 3 Hours

Concepts, theories, and issues in public health.

PBH 334 Global Health 3 Hours

An investigation of global health issues, including the principles of global health, the burden of morbidity and mortality, health determinants, health care and public health systems, socioeconomic development, and human rights.

PBH 137, 237, 337, 437 Selected Topics in Public Health 1-4 Hours

Recent developments and research methods in the field of public health will be explored.

PBH 137.1, 237.1, 337.1, 437.1 Senior Seminar in Public Health 1-4 Hours

Discuss public health importance, learn how to demonstrate scholarly and applied experience in public health, and prepare to enter the public health workforce or continue in advanced public health or other professional programs.

PBH 338 Environmental Health 3 Hours

Introduction to the major areas of environmental health presented in the context of epidemiology, toxicology, and health effects. Subjects include water and air quality, solid and liquid waste, hazardous chemicals, radiation, infectious agents, food safety, and occupational health.

PBH 341R Public Health Research 3 Hours

Conduct research mentored by public health practitioners at governmental agencies, non-governmental organizations, or health care facilities.

PBH 354 Epidemiology I 3 Hours

Introduction to basic principles and concepts in epidemiology, including descriptive epidemiology, association and causation, basic epidemiological study design, evidence-based decision analysis, and applications of epidemiology methods to basic and clinical science.

PBH 356 Health Behavior Theory and Practice 3 Hours

An introduction to social and behavioral theories that inform the discipline of public health and applied public health practice, including practical examples of how these theories inform and influence health promotion to understand and modify health-related behaviors. Focus on health inequities and inequalities of populations living in the United States and how underlying cultures and social structures impact the health of individuals and communities.

PBH 358D Health Policy and Health Systems 3 Hours

Explore an overview of the U.S. health care system and the impact of policy and legislative actions on the essentials of organization, financing, management, and delivery of private and public health care.

PBH 361P Public Health Internship 3 Hours

Includes a public health research project off campus at a public health practice agency or a graduate school of public health.

PBH 362 Epidemiology II: Quantitative Methods 3 Hours

Introduction to advanced applied statistical and analytical techniques used for public health research and practice. Examine both continuous and categorical data often used in public health research and apply appropriate data analysis techniques for purposes of data collection, analysis, and evaluation.

PBH 363 Project Management, Planning, and Evaluation 3 Hours

Investigate the importance of and the key approaches used to lead, conduct and evaluate effective public health programs. Examine practical management and program evaluation tools and techniques such budgeting, proposal/application development and use of logic models. Apply these concepts and tools within the context of service delivery and policy making in the field of public health. Recommended for students who are interested in the Certified Associate in Project Management (CAPM) exam from the Project Management Institute.

PBH 364 Field Epidemiology 3 Hours

Explore an overview and basic principles of field epidemiology including initiating operations, collecting and managing data, analyzing and interpreting data, developing interventions, and communicating during investigations

PBH 365 Public Health Informatics 3 Hours

Examine fundamental concepts in the application of informatics and information technology to the practice of public health. Investigate how interoperable information systems are used to facilitate a variety of public health functions, including outbreak management, bio-surveillance, disease prevention, and electronic laboratory reporting.

PBH 366 Global Health in Action 3 Hours

Interact with non-profit organizations to improve social determinants of health in communities globally. Participate in activities including needs assessments; Internal Review Board (IRB) applications; data collection, management, analysis, and visualization; report preparation; and resource identification as well as gain cultural understanding of the community.

PBH 367 Emerging and Re-emerging Infectious Diseases 3 Hours

Explore, research, and present emerging and re-emerging infectious diseases, including factors in disease emergence, animal reservoirs, and the principles that govern the detection, mitigation and control of pandemic disease. Study a detailed analysis of host-pathogen interactions, illuminating how viral and bacterial pathogens defeat the host's immune defenses and cause disease. Examine representative emerging and re-emerging pathogens, case-based outbreak investigations, and individual case studies.

PBH 368 Maternal, Child, and Family Health 3 Hours

Explore an overview of maternal, child, and family related services in the US and the historical and current paradigms in the field with a focus on the life course perspective, health equity, and social determinants of health.

PBH 369 Diverse Communities and Health Equity 3 Hours

Examine historical and current subjects related to social disparities, structural and institutional inequalities, social determinants of health, racially and ethnically classified social groups, gender inequity, and other forms of inequality and disparities in society and their links with human health. Explore how to work towards health equity by addressing the historical, social, and political drivers of health disparities through implementation of community centered and culturally congruent health equity strategies across varies levels of intervention.

PBH 370 Local Health in Action 3 Hours

Interact with non-profit organizations to improve social determinants of health in communities locally. Participate in activities including needs assessments; Internal Review Board (IRB) applications; data collection, management, analysis, and visualization; report preparation; and resource identification as well as gain cultural understanding of the community.

PBH 179H, 279H, 379H Honors Tutorial Course 1-3 Hours

Supervised individual research on a special topic in public health, leading to an honors thesis and an oral presentation. May be based on laboratory, library, or field research.