Public Health

PB HLTH 253B Epidemiology and Control of Infectious Diseases 3 Units
A discussion of major infectious diseases with emphasis on disease surveillance, investigative procedures, and prevention programs.

PB HLTH 200A Current issues in Public Health Ethics: Research and Practice 3 Units
This course seeks to examine the ethical challenges inherent in public health practice, research, and policy. It covers a range of topics in ethics through cases representative of different public health dilemmas.

PB HLTH 201E Public Health Interventions: Theory, Practice, and Research 2 or 3 Units
This course focuses on the primary factors that affect health and the interventions that can promote health. Students examine the determinants of health and the theory, history, types, ethics, and approaches of public health interventions.

PB HLTH 202B Ethnic and Cultural Diversity in Health Status 4 Units
Terms offered: Spring 2018, Spring 2017, Spring 2010
Focus on ethnic and cultural diversity in health behavior as a basis for public health programs. Consideration of U.S. ethnic minority groups and cultural groups in non-Western societies.

PB HLTH 205 Program Planning, Development, and Evaluation 4 Units
Terms offered: Spring 2018, Spring 2016, Spring 2015
Basic elements and considerations in planning health programs; case material will be drawn from health settings, with emphasis on multidisciplinary planning.

PB HLTH 214 Eat.Think.Design 3 Units
This course is a team-oriented, project-based course designed around the case-based and learning-by-doing models. The critical elements of the human-centered design process – discovering, ideating, and prototyping – are learned through didactic sessions and an 8-week project students work on in teams.

PB HLTH 219E Introduction to Qualitative Methods in Public Health Research 3 Units
This course is designed to familiarize students who have little or no experience in conducting qualitative research with the perspectives, methods, and techniques of a vast and contentious tradition of research.
PB HLTH 219C Community-Based Participatory Research in Public Health 3 - 4 Units
Terms offered: Spring 2018, Spring 2016, Fall 2015
The goal of this seminar is to provide doctoral and advanced master's degree students with an understanding of theories, principles, and strategies of community-based participatory research (CBPR) and related traditions.

PB HLTH 220C Health Risk Assessment 3 Units
Terms offered: Spring 2018, Spring 2017, Spring 2015
This course introduces the basic scientific principles of environmental health risk assessment, develops the understanding necessary to carry out and interpret quantitative risk assessments, and describes the context in which decisions manage environmental health risks are made.

PB HLTH 222A Health Care Technology Policy 3 Units
The course examines the public policy institutions and processes influencing innovation, regulation, and payment for biotechnology, pharmaceuticals, and medical devices.

PB HLTH 226C Economics of Population Health 3 Units
Terms offered: Spring 2018, Spring 2017, Spring 2015
An introduction to the literature that suggests that the performance of a regional economy affects the health of the population it supports. Controversies in the theoretical and empirical literature are discussed. The implications of the work for public health practice are discussed.

PB HLTH 243C Information Systems in Public Health 2 Units
An introduction to new information systems, such as the Internet and interactive television, and how they may be used to improve human health.

PB HLTH 257 Outbreak Investigation 2 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
This course will teach students why and how clusters of illnesses/epidemics are investigated. Methods and approaches required for such investigations will be discussed in detail, using published articles from the scientific literature to provide examples.

PB HLTH 252D Introduction to Causal Inference 4 Units
This course presents a general framework for causal inference using directed acyclic graphs, non-parametric structural equation models, and counterfactuals. Marginal structural models and causal effect estimation using inverse probability of treatment weighting, G-computation, and targeted maximum likelihood are introduced. In two-part presentations, students will define and implement research questions.

PB HLTH 253B Epidemiology and Control of Infectious Diseases 3 Units
A discussion of major infectious diseases with emphasis on disease surveillance, investigative procedures, and prevention programs. Emphasis is on current problems in health agencies at a state, national, and international level.
PB HLTH 253G Sexual Health Promotion and Sexually Transmitted Disease Control 2 Units
This seminar will explore current issues and controversies in public health approaches to sexual health promotion and STD control with a focus on pragmatic skills including program development and evaluation.

PB HLTH 254 Occupational and Environmental Epidemiology 3 Units
Terms offered: Spring 2018, Spring 2016, Spring 2015
Epidemiological methods for designing, conducting, and interpreting epidemiological studies of persons occupationally or environmentally exposed to chemical and physical agents.

PB HLTH 255A Social Epidemiology 3 Units
This course is designed to introduce students to the field of social epidemiology and its role in understanding the social determinants of population health and health disparities.

PB HLTH 257 Outbreak Investigation 2 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
This course will teach students why and how clusters of illnesses/epidemics are investigated.

PB HLTH 260B Principles of Infectious Diseases 4 Units
This course presents general principles of microbial interactions with humans that result in infection and disease.

PB HLTH 270A Exposure Assessment and Control 3 Units
Direct and indirect methods and procedures for the estimation and control of human exposure to chemical, physical, and biological agents of concern to health in the community and in occupational settings.

PB HLTH 271C Drinking Water and Health 3 Units
The course covers monitoring, control and regulatory policy of microbial, chemical and radiological drinking water contaminants. Additional subjects include history and iconography of safe water, communicating risks to water consumers and a bottled water versus tap water taste test as part of the discussion on aesthetic water quality parameters.

PB HLTH 271D Global Burden of Disease and Comparative Risk Assessment 3 Units
Terms offered: Spring 2018, Spring 2016, Spring 2015
The Global Burden of Disease (GBD) database utilized by provides estimates of illness, injury, and death by disease type, age, sex, and world region in a consistent and coherent manner.

PB HLTH 271E Science and Policy for Environment and Health 3 Units
Scientific knowledge and analyses are important to the development of public policies that address the impact of the environment on health. The limits of existing knowledge and uncertainties in research results create significant challenges in applying science to answer critical questions.
PB HLTH 271G Health Implications of Climate Change 3 Units
This course explores the Public Health effects of global climate change: physical basis of climate change, including causes & projections; burden of disease stemming from global climate change, emphasis on impacts in the developing world, global & local equity issues, interaction between climate change mitigation/adaptation activities & existing global health initiatives; direct exposures (extreme heat, drought, precipitation)

PB HLTH C285 Traffic Safety and Injury Control 3 Units
This course applies principles of engineering, behavioral science, and vision science to preventing traffic collisions and subsequent injury.

PB HLTH C155 Sociology of Health and Medicine 4 Units
Terms offered: Spring 2018, Summer 2017 First 6 Week Session, Spring 2017
This course covers several topics, including distributive justice in health care, the organization and politics of the health system, the correlates of health (by race, sex, class, income), pandemics (e.g., AIDS, Avian Flu and other influenzas, etc.), and the experience of illness and interactions with doctors and the medical system.

Architecture
ARCH 170B An Historical Survey of Architecture and Urbanism,
The first part of this sequence studies the ancient and medieval periods; the second part studies the period since 1400; the aim is to look at architecture and urbanism in their social and historical context.

ARCH 240 Advanced Study of Energy and Environment
Minimizing energy use is a cornerstone of designing and operating sustainable buildings, and attention to energy issues can often lead to greatly improved indoor environmental quality. For designers, using computer-based energy analysis tools are important not only to qualify for sustainability ratings and meet energy codes, but also to develop intuition about what makes buildings perform well.

Economics
ECON 271 Seminar in Development Economics 3 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017

ECON 280C International Economics 3 Units
Terms offered: Spring 2018, Spring 2017, Spring 2015
This course is an empirical treatment of open-economy macroeconomics and finance.

Econ 174 Global Poverty and Impact Evaluation
Rather than simply describing the causes and symptoms of global poverty, this course will explore the variety of tools available for rigorously measuring the impact of development programs. Through weekly case studies of field research, the course will cover impact evaluation theory and methods. The course will culminate with a final project in which each student will design an impact evaluation of a policy or intervention.
ECON 270B Development Economics
Problems of underdevelopment and poverty, policy issues and development strategies.

Public Policy
PUB POL 259 Benefit-Cost Analysis 4 Units
Terms offered: Spring 2018, Fall 2016, Fall 2015
This course discusses and criticizes the conceptual foundations of cost-benefit analysis, and analyzes in depth some important applied aspects such as endogenous prices of other commodities, methods to infer willingness to pay, valuation of life, uncertainty and the rate of discount.

Science and Technology
STS C250 Science and Technology Studies Research Seminar 3 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017, Spring 2016, Spring 2015, Fall 2013
This course will cover methods and approaches for students considering professionalizing in the field of STS, including a chance for students to workshop written work.

Agricultural/Resource Economics
A/RESEC 259 Rural Economic Development Workshop 1 Unit
Terms offered: Spring 2018, Fall 2017, Spring 2017
Presentation and criticism of ongoing research by faculty, staff and students. Not necessarily offered every semester.

Ethnic Studies
ETH STD 240 Series in Comparative Transnational Theories and Methods 4 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
Research seminar focus is on critical theories and practices in transnational comparative frameworks.

Molecular Biology
MCELLBI 218K Gene Editing for Fundamental Biology and Therapeutics 2 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
The use of genome engineering to study cellular signaling (especially ubiquitin-mediated signals) and develop potential new therapeutics and diagnostics will be covered in research reports and reviews of the current literature and in discussion of current experiments in the field.

Energy and Resources Group
ENERES 275 Water and Development 4 Units
This class is an interdisciplinary graduate seminar for students of water policy in developing countries. It is not a seminar on theories and practices of development through the "lens" of water. Rather, it is a seminar motivated by the fact that over 1 billion people in developing countries have no access to safe drinking water, 3 billion don't have sanitation facilities and many millions of small farmers do not have reliable water supplies to ensure a healthy crop. Readings and discussions will cover: the problems of water access and use in developing countries; the potential for technological, social, and economic solutions to these problems; the role of institutions in access to water and sanitation; and the pitfalls of and assumptions behind some of today's popular "solutions."
Development Practice
DEVP 237 Leadership, Conflict Resolution, and Community Development 4 Units
This three-segment course starts with critical evaluation of literature and methods for communal natural resource management, followed by a segment that emphasizes leadership skills and conflict resolution approaches for development. The third segment will address issues of conflict and policymaking in a global context and provide the institutional perspective of development organizations and strategies.

Sociology
SOCIOL 127 Development and Globalization 4 Units
A comparative analysis of socio-economic and political change, focusing on the poor countries of Asia, Africa, and Latin America. Offers both a basic descriptive understanding of processes of change in these countries and an introduction to major theoretical perspectives on development and globalization.

Political Science
POLSCI 111AC The Politics of Displacement 4 Units
In this class, the revolution against traditional political authority embodied in Jefferson’s and Thomas Paine’s attack on the British crown, the rise of slavery, and the conflict with Native America are seen as coherent parts of a cultural and social development that emerges in 18th- and 19th-century America. Using both original antebellum materials, including biographies, history, and literature, and contemporary images from American popular culture such as film, news and magazine articles, and music, we will compare and contrast the experiences of antebellum Native Americans, European immigrants, and African slaves as a connection between the past and the present emerges.