

UC Davis
Master of Public Health Program
Core Course List

SPH 201. Introduction to Public Health (3)

Lecture – 3 hours, Lab – 2 hours. Graduate standing or consent of instructor. Provides an overview of public health. Covers the history of public health in the U.S.; defines its major functions and constituencies; and, introduces fundamental principles of epidemiology, biostatistics, behavioral sciences, environmental health, infectious diseases, and reducing health disparities. Letter grade. - (SummerII.). Garcia

SPH 210. Public Health Informatics (2)

Lecture – 2 hours, Lab - 2 hours. Collection, verification, and utilization of data related to populations; infrastructure, functions and tools used to generate public health knowledge supporting public health practices and policy development/dissemination. The laboratory portion of the course is designed to provide students with a hands-on experience with Geographic Information Systems (GIS), a critical tool in public health today. Key concepts provided in the laboratory segment include basic digital cartography principles, visualization of health data using GIS, and preparation of spatial data for GIS systems.(S/U grading only) – (Summer II) Hogarth

SPH 222. Social and Behavioral Aspects of Public Health (3)

Lecture/discussion—3 hours. Prerequisite: Statistics 102 and 106 or the equivalent, graduate standing, consent of instructor. Concepts and methods of social and behavioral sciences relevant to the identification and solution of public health problems. Topics include nutrition, physical activity, smoking, socioeconomic status, gender, race/ethnicity, stress, social support, social marketing, media advocacy and behavioral theories of change.—II. De Vogli

SPH 262. Principles of Environmental Health Science (3)

Lecture—3 hours. Prerequisite: consent of instructor. Principles, approaches and issues related to environmental health. Recognizing, assessing, understanding and controlling the impact of people on their environment and the impact of the environment on the public.—I. (I.) Bennett

SPH 273. Health Services Administration (3)

Lecture—3 hours. Prerequisite: consent of instructor. Structure and function of public and private medical care. Topics include categories and trends in national medical spending, predictors of patient use, causes of death, managed care, HMOs, Medicare, Medicaid, costs of technology, and medical care in other countries.—II (II) Leigh

SPH 290. Topics in Public Health (1)

Seminar—1.5 hours. Prerequisite: open to students in Master of Public Health program or consent of instructor. Seminar on key issues and current topics in public health. Course begins in August SSII. Students must enroll in August, then Fall and Winter. The course is a series but grades and units are given at end of each quarter. May be repeated four times for credit. (S/U grading only.)—I, II, III, IV. (I, II, III, IV.) Kass, McCurdy, Koga, Hertz-Picciotto

SPH 297. Public Health Practicum (1-8)

Fieldwork—3-32 hours. Open only to Master of Public Health students. Practical fieldwork experience in public health. Placement site will vary based on the interest and experience of each student. May be repeated four times up to 16 units of credit. (S/U grading only.)—I, II, III, IV. (I, II, III, IV.) McCurdy
For research and independent study courses (298,299), students need to contact faculty directly to coordinate the course. More information on department faculty can be found at the following link: <http://phs.ucdavis.edu/index.php/faculty>. Once a course is set up, then students need to e-mail PHSInstAffairs@phmail.ucdavis.edu for the course registration number (CRN).

EPI 205A. Principles of Epidemiology (4)

Lecture—4 hours. Prerequisite: Preventive Veterinary Medicine 402 or consent of instructor. Basic epidemiologic concepts and approaches to epidemiologic research, with examples from veterinary and human medicine, including outbreak investigation, infectious disease epidemiology, properties of tests, and an introduction to epidemiologic study design and surveillance. (Same course as Preventive Veterinary Medicine 405.)

MPM 402: Medical Statistics I (4)

Course leader: Thomas Farver. Course Description: Statistics in clinical, laboratory and population medicine: graphical and tabular presentation of data; probability; binomial; Poisson, normal, t-, F-, and Chi-square distributions; elementary nonparametric methods; simple linear regression and correlation; life tables. Microcomputer applications of statistical procedures for population medicine.

MPM 403: Medical Statistics II (4)

Course leader: Thomas Farver. Course Description: Continuation of MPM 202. Analysis of variance in biomedical sciences; nonparametric methods; multiple regression; biomedical applications of statistical methods. Microcomputer applications to reinforce principles that are taught in lecture.