Occupational and Environmental Health Courses (OEH)

OEH Courses

This is a list of courses with the subject code OEH. For more information, see Occupational and Environmental Health (College of Public Health) in the catalog.

OEH:4240 Global Environmental Health 3 s.h.
Environmental health comprised of aspects of human health determined by interactions with physical, chemical, biological, and social factors in global environment; worldview and survey; focus on issues most relevant today; sustainability; air, water, and soil pollution and remediation; occupational health; injury prevention; food safety and security; risk assessment; environmental health policy.

OEH:4260 Global Water and Health 3 s.h.
Overview of global water and health; microbial and toxicant identification, water-related adverse health effects, risk assessment, approaches to reduce water-related disease, distal water-related influences (e.g., global warming), and historic cases. Same as GHS:4260.

OEH:4310 Occupational Ergonomics: Principles 3 s.h.
Fundamental topics of occupational ergonomics important to future industrial hygienists, engineers, and other occupational safety and health practitioners; introduction to principles of ergonomics with focus on physiological and anatomical capabilities of the worker and interaction of workers with their environments; topics include anthropometry, physiological and biomechanical basis of work, occupational musculoskeletal disorders, risk factors for musculoskeletal disorders, workplace and tool design, manual materials handling, workplace environment, job analysis, and elements of ergonomics process to improve job design.

OEH:4510 Injury and Violence Prevention 3 s.h.
Theory, research, and practice of injury control; unintentional and intentional injuries; local, national, international injury issues. Same as CPH:4230, EPID:4510.

OEH:4530 Global Road Safety 3 s.h.
Road safety problem, data sources, research methods used in field, and how intervention and prevention programs are developed and evaluated; lecture, hands-on approaches. Same as CPH:4220, GHS:4530.

OEH:4540 Statistics for Experimenters 3 s.h.
Application of statistical techniques to evaluate data derived from experimental samples designs; use of spreadsheets, statistical software; design and analysis of experiments; regression analysis; model building; practical applications. Same as CEE:4187.

OEH:4920 Solid and Hazardous Wastes 3 s.h.
Sources, characteristics, collection, disposal of solid and hazardous wastes; environmental impacts of hazardous waste management; resource recovery systems. Requirements: for OEH:4920—OEH:4240. Same as CEE:4158.

OEH:5010 Occupational and Environmental Health Seminar 0-1 s.h.
Contemporary topics in occupational health, agricultural and comparative medicine, environmental health.

OEH:5110 Managing and Sharing Your Research Data 1 s.h.
Overview of essential practices in managing the data you collect and generate during research. Topics include file organization; documenting your work and lab notebooks; optimizing spreadsheet data and cleanup tools; reproducibility; funder and publisher requirements; and conclude with how and where to share and publish data, from choosing a repository to creating a data record, including licensing, ownership, preservation of access, reuse, and citation. Applicable for any student currently doing research, or planning to do so. Same as CEE:5110.

OEH:5410 Occupational Safety 3 s.h.
Principles and practices of occupational safety; applications in industrial and other occupational settings; interactions with other disciplines.

OEH:5620 Occupational Health 3 s.h.
Introduction to occupational health and safety; for graduate students in agricultural health and safety, environmental health, ergonomics, industrial hygiene, injury prevention, occupational epidemiology, and occupational medicine.

OEH:6110 Rural Health and Agricultural Medicine 3 s.h.
Clinical orientation of specific health problems of rural residents, agricultural workers; rural health care delivery, socioeconomic issues in agriculture and their effects on health and safety of the agricultural population; occupational health problems, environmental health hazards in rural areas.

OEH:6120 Current Topics in Agriculture and Rural Health 0-1 s.h.
Current issues that affect the health of rural populations including agricultural hazards, pesticide exposure, mental health, global agricultural health, and food safety.

OEH:6420 Methods in Exposure Science 3 s.h.
Principles, with emphasis on recognition of chemical health hazards, physical health hazards at work. Corequisites: OEH:5620, if not taken as a prerequisite.

OEH:6431 Assessing Noise Hazards 1 s.h.
Scientific methods to measure noise, assess human noise exposure, and implement technology to control noise exposure.

OEH:6432 Assessing Nonionizing Radiation Hazards 1 s.h.
Scientific methods to measure nonionizing, assess human nonionizing exposure, and implement technology to control nonionizing exposure.

OEH:6433 Assessing Ionizing Radiation Hazards 1 s.h.
Scientific methods to measure ionizing radiation, assess human ionizing radiation exposure, and implement technology to control ionizing radiation exposure.

OEH:6440 Control of Occupational Hazards 3 s.h.
Physical science concepts applied to control of occupational hazards ranging from dusts to mists to vapors; strategies, management issues, personal protective equipment, implementation skills; in-depth instruction on local exhaust ventilation system design.

OEH:6450 Aerosol Technology 3 s.h.
Particle statistics and physics of aerosols, including inertia, diffusion, nucleation, evaporation, condensation, optics, electrical properties; relationship to fields such as agriculture, nanotechnology, environmental and occupational health, atmospheric chemistry, drug delivery.
OEH:6460 Quantitative Exposure Assessment: Study Design and Evaluation 1,3 s.h.

OEH:6510 Environmental and Occupational Epidemiology 3 s.h.
Overview of methods to interpret and perform environmental and occupational epidemiologic studies with focus on exposure assessment; valuable insights into identifying regional, national, global environmental, and occupational health-related issues. Prerequisites: EPID:4400. Same as EPID:6200.

OEH:6520 Injury Epidemiology 3 s.h.
How epidemiology can be applied to injury prevention and control: epidemiology literature, specific methodological problems involved in the epidemiology of injuries, critical evaluation of research articles. Offered spring semesters of odd years. Prerequisites: EPID:4400. Same as EPID:6510.

OEH:6710 Human Toxicology and Risk Assessment 3 s.h.
Sources, routes of absorption, effects of environmental toxicants affecting man; pathophysiology of toxicant actions, including those of air and water pollutants, metals, pesticides, solvents, food toxicants, chemicals. Requirements: college chemistry and biology.

OEH:6720 Advanced Toxicology 4 s.h.
Hepatic metabolism and toxification mechanisms, pulmonary and immunotoxicology, nervous system poisons and their mechanisms of action, general and molecular concepts of chemical carcinogenesis. Prerequisites: OEH:6710 or PHAR:6501.


OEH:7010 Problems in Occupational and Environmental Health arr.
Didactic material in occupational and environmental health; may include tutorial, seminar, faculty-directed independent work (e.g., literature search, project, short research project).

OEH:7020 Independent Study in Occupational and Environmental Health arr.
In-depth pursuit of an area in occupational and environmental health requiring substantial creativity and independence.

OEH:7040 Preceptorship in Occupational and Environmental Health arr.
Work experience using knowledge and skills acquired in the classroom; arranged in conjunction with departmental or collegiate activities or with governmental agencies or private industry.

OEH:7050 Occupational and Environmental Health Internship 0,3 s.h.
Comprehensive and integrated application of knowledge acquired in a workplace setting; structured approach to demonstrate skills and knowledge obtained through a workplace experience. Corequisites: OEH:5620 or OEH:4240, if not taken as a prerequisite.

OEH:7060 Research Design in Occupational and Environmental Health 3 s.h.
Development of a research grant proposal based on student's independent research aims and hypotheses, preparation of accompanying documents for a grant proposal submission, and development of a comprehensive dissemination plan that articulates how academic and lay audiences will be reached with research findings.

OEH:7070 Interpreting Occupational and Environmental Health Research 3 s.h.
Systematic evaluation of methodological strengths and weaknesses of published research studies in occupational and environmental health. Prerequisites: (OEH:5620 or OEH:4240) and (BIOS:4120 or OEH:4540) and EPID:4400.