



SCHOOL of PUBLIC HEALTH



Department of Environmental & Occupational Health

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MPH in Environmental and Occupational Health Sciences Academic Year 2009-2010

Environmental and occupational health science is the *recognition, evaluation and control of environmental factors that may adversely impact human health or the ecological balances to human health and environmental quality, whether in the natural or human-made environment*. Students with various backgrounds and interests are sought who desire careers related to the environmental determinants of health. Specifically, this area of concentration provides the expertise and experience to monitor, analyze, interpret and mitigate the exposure to chemical and physical contaminants, and microbial pathogens in water, air, soil, and food on human health. It prepares students in the M.P.H. program for technical and supervisory roles in the governmental, non-profit and private sector. By the conclusion of the M.P.H. program, a student in the environmental and occupational health science concentration will be able to apply their knowledge and skills to:

1. Health, safety, and ecological impacts of environmental agents.
2. Factors that modify exposures to environmental hazards
3. Recognition, evaluation, and control of environmental and occupational hazards
4. Policies, regulations and standards/guidelines
5. Program development, management and evaluation

Environmental Health Curriculum (48 Semester Credit Hours)

CORE COURSES: 15 SCH

BIOS	5300	Biostatistics for Public Health 1	3 SCH
EOHS	5300	Environmental Health	3 SCH
EPID	5300	Principles of Epidemiology	3 SCH
HMAP	5300	Introduction to Health Management and Policy	3 SCH
SABS	5300	Theoretical Foundations of Individual & Community Health	3 SCH

REQUIRED COURSES: 15 SCH

EOHS	5310	Evaluation and Control of Biological Agents and Infectious Disease	3 SCH
EOHS	5330	Recognition, Evaluation and Control of Environmental Hazards	3 SCH
EOHS	5331	Environmental and Occupational Sampling and Analytical Methods	3 SCH
EOHS	5350	Environmental and Occupational Toxicology	3 SCH
EOHS	5360	Environmental Data Analysis	3 SCH

PRACTICE EXPERIENCE: 3 SCH

EOHS	5397	Public Health Practice Experience	3 SCH
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ELECTIVE COURSES: 15 SCH

EOHS	5312	Food Quality and Safety	3SCH
EOHS	5314	Arthropods and Public Health	3 SCH
EOHS	5320	TX-Mexico Border Health Issues	3 SCH
EOHS	5322	Air Pollution and Health	3 SCH
EOHS	5324	Water and Public Health: Regional to Global Perspective	3 SCH
EOHS	5332	Industrial Hygiene	3 SCH
EOHS	5334	Occupational Diseases and Health Practice	3 SCH
EOHS	5336	Work Surveillance, Safety, and Law	3 SCH
EOHS	5340	Exposure and Risk Assessment	3 SCH
EOHS	5342	Biomarkers in Environmental Epidemiology	3 SCH
EOHS	5370	Policy, Science and Decisions	3 SCH
EOHS	5391	Special Topics in Environmental and Occupational Health	1-3 SCH
EOHS	5399	Independent Study in Environmental Health	1-3 SCH
EOHS	6300	Environmental Health Determinants	3 SCH
EOHS	6324	Genomics and Public Health	3 SCH
EOHS	6348	Spatiotemporal Environmental Health Modeling	3 SCH
EPID	6326	Occupational Epidemiology	3 SCH

- Students may substitute an elective course not on this list only with prior written approval of their advisor.
- Courses not approved as substitutes will not be applied toward the degree plan.
- For the Texas - Mexico Border Health Issues course EOHS 5320, all students must have a Passport prior to taking this course, and international students must also have a US multi-entry Visa and purchase a travel visa for Mexico prior to taking this course.

CULMINATING EXPERIENCE:

Comprehensive Exam

MPH students can use attendance at departmental seminars towards the 200 hours for the Public Health Practice Experience (EOHS 5397) as follows: The practicum must include attendance at a minimum of 8 and a maximum of 16 departmental seminars. This is equivalent to a minimum of 8 and a maximum of 16 hours being credited towards the 200 hours of the practicum required. All students must complete at least 8 hours of seminars for graduation.