ENVIRONMENTAL HEALTH PhD

The Environmental Health (EH) PhD program addresses environmental and occupational health concerns as they relate to public health in Minnesota, the United States and around the world. While completing program requirements, students have the opportunity to explore their own interests by choosing one of the seven areas of emphasis. Students must complete a minimum of 48 credits. To complete program requirements, students will choose electives, in consultation with their academic advisor, which may include credits towards a minor.

**CORE REQUIREMENTS**

3 CREDITS

PubH 6250* Foundations of Public Health (2 cr)
PubH 6742 Ethics in Public Health: Research & Policy (1 cr)

*Required for students who do not have an MPH or bachelor's degree in Public Health from a CEPH-accredited school or program.

**THESIS CREDITS**

PubH 8888 Thesis Credits (24 cr)

**AREAS OF EMPHASIS**

**ENVIRONMENTAL & OCCUPATIONAL EPIDEMIOLOGY**

PubH 6140 Occupational and Environmental Epidemiology (2 cr)
PubH 8120 Occupational Health & Safety Research Seminar (4 cr)
PubH 8341 Advanced Epidemiologic Methods: Concepts (3 cr)
PubH 8342 Advanced Epidemiologic Methods: Applications (3 cr)
PubH 8343 Synthesis & Application of Methods in Epi Research (4 cr)
PubH 6150 Interdisc. Eval of Occ Health & Safety Field Problems (3 cr)
PubH 6170 Introduction to Occupational Health & Safety (3 cr)

**ENVIRONMENTAL CHEMISTRY**

PubH 6190 Environmental Chemistry (3 cr)
PubH 8120 Occupational Health and Safety Research Seminar (1 cr)
CEGE 5541 Environmental Water Chemistry (3 cr)
CEGE 8852 Chemistry of Organic Pollutants in Env Systems (3 cr)
EEB 5601 Limnology (3 cr)
STAT 5021 Statistical Analysis (4 cr)

**ENVIRONMENTAL INFECTIOUS DISEASES**

PubH 6102 Issues in Environmental Health (2 cr)
PubH 6181 Surv of Foodborne Diseases & Food Safety Hazards (2 cr)
PubH 6182 Emerging Infectious Diseases: Current Issues (3 cr)
PubH 6341 Epidemiologic Methods I (3 cr)
PubH 6342 Epidemiologic Methods II (3 cr)
PubH 6343 Epidemiologic Methods III (3 cr)
PubH 6385 Epidemiology of Infectious Diseases (2 cr)
PubH 6450 Biostatistics I (4 cr)
PubH 6451 Biostatistics II (4 cr)
VMED 5180 Ecology of Infectious Diseases (3 cr)

**ENVIRONMENTAL TOXICOLOGY**

PubH 6112 Environmental Health Risk Assessment (2 cr)
PubH 6159 Principles of Toxicology I (2 cr)
PubH 6160 Principles of Toxicology II (3 cr)
PubH 6161 Regulatory Toxicology (2 cr)
PubH 6320 Fundamentals of Epidemiology (3 cr)
PubH 6414 Biostatistical Literacy (3 cr)
PubH 8120 Occupational Health and Safety Research Seminar (1 cr)
PubH 8161 Current Literature in Toxicology (1 cr)

**FOOD SAFETY**

PubH 6102 Issues in Environmental Health (2 cr)
PubH 6181 Surv of Foodborne Diseases & Food Safety Hazards (2 cr)
PubH 6182 Emerging Infectious Diseases: Current Issues (3 cr)
PubH 6183 Theory & Practice in Foodborne Disease Outbreak (1 cr)
PubH 6341 Epidemiologic Methods I (3 cr)
PubH 6342 Epidemiologic Methods II (3 cr)
PubH 6343 Epidemiologic Methods III (4 cr)
PubH 6385 Epidemiology & Control of Infectious Diseases (2 cr)
PubH 6450 Biostatistics I (4 cr)
PubH 6451 Biostatistics II (4 cr)
PubH 7210 Global Food Systems (1 cr)
PubH 8120 Occupational Health and Safety Research Seminar (1 cr)

**FOOD SAFETY**

**OCCUPATIONAL & ENVIRONMENTAL HEALTH NURSING**

PubH 6102 Issues in Environmental Health (2 cr)
PubH 6130 Occupational Medicine: Principles and Practice (2 cr)
PubH 6140 Occupational & Environmental Epidemiology (2 cr)
PubH 6150 Interdisc. Eval of Occ Health & Safety Field Problems (3 cr)
PubH 6170 Introduction to Occupational Health & Safety (3 cr)
PubH 6341 Epidemiologic Methods I (3 cr)
PubH 6342 Epidemiologic Methods II (3 cr)
PubH 6343 Epidemiologic Methods III (4 cr)
PubH 6450 Biostatistics I (4 cr)
PubH 6451 Biostatistics II (4 cr)
PubH 8120 Occupational Health & Safety Research Seminar (2 cr)
GRAD 8101 Teaching in Higher Education (3 cr)

**OCCUPATIONAL INJURY PREVENTION RESEARCH TRAINING**

PubH 6102 Issues in Environmental Health (2 cr)
PubH 6120 Injury Prev. in the Workplace, Community, & Home (2 cr)
PubH 6123 Violence Prev. & Control: Theory, Research & App. (2 cr)
PubH 6140 Occupational and Environmental Epidemiology (2 cr)
PubH 6150 Interdisc. Eval of Occ Health & Safety Field Problems (3 cr)
PubH 6170 Introduction to Occupational Health & Safety (3 cr)
PubH 6341 Epidemiologic Methods I (3 cr)
PubH 6342 Epidemiologic Methods II (3 cr)
PubH 6343 Epidemiologic Methods III (3 cr)
PubH 6450 Biostatistics I (4 cr)
PubH 6451 Biostatistics II (4 cr)
PubH 8120 Occupational Health and Safety Research Seminar (2 cr)
GRAD 8101 Teaching in Higher Education (3 cr)
IE 5511 Human Factors & Work Analysis (4 cr)

**PROGRAM COORDINATOR**

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