Environmental Health MPH

The Environmental Health (EH) MPH 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 eight elective areas of emphasis in consultation with their academic advisor. Students must complete a minimum of 42 credits. To complete program requirements, students will choose electives, in consultation with their academic advisor, which may include credits towards a minor.

PUBLIC HEALTH CORE REQUIREMENTS
16 CREDITS
PubH 6020 Fundamentals of Social and Behavioral Science (2 cr)
PubH 6102 Issues in Environmental and Occupational Health (2 cr)
PubH 6250 Foundations of Public Health (2 cr)
PubH 6320 Fundamentals of Epidemiology* (3 cr) or
PubH 6341 Epidemiologic Methods I* (3 cr) or
PubH 6414 Biostatistical Literacy** (3 cr) or
PubH 6450 Biostatistics I* (4 cr) or
PubH 6741 Ethics in Public Health: Professional Practice and Policy (1 cr)
PubH 6751 Principles of Management in Health Services Organizations (2 cr)

**Students who take PubH 6414 Biostatistical Literacy, must also take one of the following courses:
PA 5929 Introduction to Data Visualization: Telling Stories with Numbers (2 cr)
PubH 6107 Excel and Access in Public Health Settings (1 cr)
PubH 6123 Violence Prevention & Control: Theory, Research, & Application (2 cr)
PubH 6325 Data Processing with PC-SAS (1 cr)
PubH 6420 Introduction to SAS Programming (1 cr)
PubH 6470 SAS Procedures and Data Analysis (3 cr)
PubH 6755 Planning & Budgeting in Public Health (2 cr)
PubH 6813 Managing Electronic Health Information (2 cr)
PubH 6845 Using Demographic Data for Policy Analysis (3 cr)
PubH 7461 Exploring and Visualizing Data in R (2 cr)

ENVIRONMENTAL HEALTH REQUIREMENT
4 CREDITS
INTEGRATED EXPOSURE & HEALTH EFFECTS
Select at least one course from the following list:
PubH 6112 Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2 cr)
PubH 6141 GIS & Spatial Analysis (3 cr)
PubH 6154 Climate Change & Global Health (3 cr)
PubH 6162 Biomarkers (2 cr)
PubH 6181 Surveillance of Foodborne Diseases & Food Safety Hazards (2 cr)
PubH 6190 Environmental Chemistry (3 cr)
PubH 6193 Adv. Topics in Human Exposure Science (2 cr)

RISK MANAGEMENT
Select at least one course from the following list:
PubH 6115 Worker Protection Law (1 cr)
PubH 6116 Environmental Law (1 cr)
PubH 6120 Injury Prevention in the Workplace, Community, & Home (2 cr)
PubH 6123 Violence Prevention & Control: Theory, Research, & Application (2 cr)

APPLIED PRACTICE EXPERIENCE
PubH 7106 (1-5 cr)

INTEGRATIVE LEARNING EXPERIENCE
PubH 7104 (1-5 cr)

AREAS OF EMPHASIS
As part of elective courses, students may choose one of the following seven Emphasis Areas, in consultation with their academic advisor.

GENERAL
This Emphasis Area provides the most flexibility for students to explore their own interests, by choosing courses from the numerous elective options.

ENVIRONMENTAL INFECTIOUS DISEASES
PubH 6181 Surveillance of Foodborne Diseases & Food Safety Hazards (2 cr)
PubH 6182 Emerging Infectious Diseases: Current Issues (3 cr)
PubH 6385 Epidemiology of Infectious Diseases (2 cr)
VMED 5180 Ecology of Infectious Diseases (3 cr)

ENVIRONMENTAL & OCCUPATIONAL EPIDEMIOLOGY
PubH 6450 & PubH 6341 required.
PubH 6140 Environmental and Occupational Epidemiology (2 cr)
PubH 6342 Epidemiologic Methods II (3 cr)
PubH 6451 Biostatistics II (4 cr)

FOOD SAFETY
PubH 7210 must be taken twice, for a total of 1 credit
PubH 6181 Surveillance Foodborne Diseases & Food Safety Hazards (2 cr)
PubH 6182 Emerging Infectious Diseases: Current Issues (3 cr)
PubH 6183 Theory & Practice of Outbreak Investigations (1 cr)
PubH 6385 Epidemiology of Infectious Diseases (2 cr)
PubH 7210 Global Food Systems (0.5 cr)
FSCN 5131 Food Quality (3 cr)

GLOBAL ENVIRONMENTAL HEALTH
PubH 6108 Foundations of Global Health (2 cr)
PubH 6131 Working in Global Health (2 cr)
PubH 6132 Air, Water, and Health (2 cr)
PubH 6134 Sustainable Development in Global Public Health (2 cr)
PubH 6182 Emerging Infectious Diseases: Issues, Policies, & Controversies (3 cr)

INJURY & VIOLENCE EPIDEMIOLOGY & PREVENTION
PubH 6120 Injury Prevention in the Workplace, Community, & Home (2 cr)
PubH 6123 Violence Prevention & Control: Theory, Research & Application (2 cr)
PubH 6342 Epidemiologic Methods II (3 cr)
PubH 8120 Occ. & Environmental Health and Safety Research Seminar (2 cr)

OCCUPATIONAL & ENVIRONMENTAL HEALTH NURSING
PubH 6120 Injury Prevention in the Workplace, Community, & Home (2 cr)
PubH 6130 Occupational Medicine: Principles and Practice (2 cr)
PubH 6150 Interdisciplinary Eval of Occ Health & Safety Field Problems (3 cr)
PubH 6151 Occupational & Environmental Health Nursing Seminar (1 cr)
PubH 6170 Introduction to Occupational Health & Safety (3 cr)

OCCUPATIONAL & ENVIRONMENTAL MEDICINE
PubH 6120 Injury Prevention in the Workplace, Community and Home (2 cr)
PubH 6130 Occupational Medicine: Principles and Practice (3 cr)
PubH 6140 Occupational and Environmental Epidemiology (2 cr)
PubH 6150 Interdisciplinary Eval of Occ Health & Safety Field Problems (3 cr)
PubH 6159 Principles of Toxicology I (2 cr)
PubH 6170 Introduction to Occupational Health and Safety (3 cr)
PubH 6173 Exposure to Physical Agents (2 cr)
PubH 6387 Cancer Epidemiology (2 cr)
PubH 8120 Occupational Safety and Health Research Seminar (1 cr)

REGULATORY TOXICOLOGY AND RISK ASSESSMENT
PubH 6112 Env Health Risk Assessment: App to Human Health Risks from Exposure to Chemicals (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 6162 Application of Biomarkers in Public Health Research (2 cr)
PubH 8160 Advanced Toxicology (2 cr)
PubH 8161 Current Literature in Toxicology (1 cr)