Environmental Infectious Diseases

MPH Program

Faculty:
Craig Hedberg, PhD, MS, Bruce Alexander, PhD, Michael Osterholm, PhD, William Toscano, PhD

Adjunct Faculty:
Jeffrey Bender, DVM Clinical and Population Sciences, College of Veterinary Medicine
Randall Singer, DVM, PhD, Veterinary and Biological Sciences, College of Veterinary Medicine
Kirk Smith, DVM, PhD, Vectorborne and Zoonotic Diseases Unit, Minnesota Department of Health
Scott Wells, DVM, PhD, Clinical and Population Sciences, College of Veterinary Medicine
Carlota Medus, PhD, MPH, Foodborne, Vectorborne and Zoonotic Diseases, MN Department of Health

General Requirements:
PubH 6020 Fundamentals of Social and Behavioral Science (3 cr)
PubH 6320 Fundamentals of Epidemiology (3 cr) or PubH 6341 Epidemiologic Methods I (3 cr)
PubH 6414 Biostatistics Methods I (3 cr) or PubH 6450 Biostatistics I (4 cr)
PubH 6741 Ethics in Public Health Professional Practice and Policy (1 cr) or PubH 6742 Ethics in Public Health Research and Policy (1 cr)
PubH 6751 Principals of Management in Health Services Organizations (2 cr) or PubH 6752 Public Health Management (3 cr)
PubH 7196 Field Experience in Environmental Health (3 cr)

Division Core Courses:
PubH 6103 Exposure to Environmental Hazards (2 cr)
PubH 6104 Environmental Health Effects: Introduction to Toxicology (2 cr)
PubH 6105 Environmental and Occupational Health Policy (2 cr)
PubH 7194 Environmental Health Masters Project (3 cr)

Program Course Requirements:
PubH 6181 Surveillance of Foodborne Diseases and Food Safety Hazards (2 cr)
PubH 6182 Emerging Infectious Diseases (3 cr)
PubH 6385 Epidemiology of Infectious Diseases (2 cr)
VMed 5180 Ecology of Infectious Diseases (3 cr)

Electives (chosen in consultation with advisor)
TOTAL CREDITS: Minimum of 42

Recommended Electives:
PubH 6112 Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (3 cr)
PubH 6711 Public Health Law (2 cr – taught in Public Health Institute)
PubH 7210 Global Food Systems (0.5 cr – taught in Public Health Institute)
PubH 7214 Principles of Risk Communication (1 cr – taught in Public Health Institute)
VMed 8090 Epidemiology of Zoonoses and Diseases Common to Animals and Humans (3 cr)
VMed 5181 Spatial Analysis in Infectious Disease Epidemiology (3 cr)
VMed 5420 Molecular Epidemiology of Infectious Disease (3 cr)
FSCN 4121 Food Microbiology and Fermentations (3 cr)
MicB 4121 Microbial Ecology and Applied Microbiology (3 cr)
MicB 4131 Immunology (3 cr)
MicB 4151 Molecular and Genetic Bases for Microbial Diseases (3 cr)
MicB 4171 Biology, Genetics and Pathogenesis of Viruses (3 cr)

Credits are listed in ( ).