



Veterinary Public Health - MPH

Increasing focus on zoonotic diseases, foodborne illness, public health preparedness, antibiotic resistance, the human-animal bond, and environmental health has dramatically increased opportunities for public health veterinarians - professionals who address key issues surrounding human and animal health.

Adding the MPH to your DVM degree positions you to work at the interface of human wellness and animal health, spanning agriculture and food industry concerns, emerging infectious diseases, and ecosystem health.

Unique Features

- Earn a MPH degree in the same four years as your DVM.
- The MPH is offered through a mix of online and in-person classes. Online courses are taken during summer terms, before and during your veterinary curriculum. Attendance at the Public Health Institute, held each summer at the University of Minnesota, provides you with the opportunity to earn elective credits. The Public Health Institute is a unique forum for professionals from multiple disciplines to connect and immerse themselves in emerging public health issues. It is considered a highlight of our program.
- A maximum of 14 graduate or DVM credits may transfer in to the MPH degree program.
- You can pursue your DVM at Cornell while pursuing your MPH at the U of M School of Public Health.
- The MPH degree is offered at the U of M resident tuition rate.

Curriculum

42 credits

Core Curriculum (21.5 credits)

- PubH 6299 - Public Health is a Team Sport: The Power of Collaboration (1.5 cr)
- PubH 6020-Fundamentals of Social and Behavioral Science (3 cr)
- PubH 6102 - Issues in Environmental and Occupational Health (2 cr)
- PubH 6320 - Fundamentals of Epidemiology (3 cr)
- PubH 6414 - Biostatistical Methods (3 cr)
- PubH 6741 - Ethics in Public Health: Professional Practice and Policy (1 cr)
- PubH 6751 - Principles of Management in Health Services Organizations (2 cr)
- PubH 7294 - Master's Project (3 cr)
- PubH 7296 - Field Experience (3 cr)

Elective Curriculum (20.5 credits)

Students may select courses from the following focus areas for their electives: Food Protection, Preparedness, Response and Recovery, Global Health, and Infectious Disease/Epidemiology.

Elective courses allow students to meet the public health practice domain requirements set forth by the Council on Linkages: public policy development using a systems framework; interventions based on the dimensions of community and culture; assessment and application of basic public health sciences; and program management and communications principles.

Veterinary Public Health MPH Program Contacts:

www.php.umn.edu

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Cornell Student Liaison:

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Application Deadline:

January 15, preferred

Application/Admission

Eligible students must hold a baccalaureate degree with a preferred cumulative GPA of 3.0/4.0, and be admitted to and in good standing in, an accredited veterinary school.

Required Submissions

Schools of Public Health Application Service (SOPHAS) application, and submit application fee. Designate the U of M School of Public Health.
www.sophas.org

Personal essay describing educational experience and professional career objectives.

Résumé/CV.

Official transcript from each institution attended.

Official GRE score report.

Three letters of recommendation from persons qualified to assess your academic work, clinical, public health or professional experiences or leadership potential in public health.

Application Deadline

January 15, preferred

Completed applications are reviewed by an admissions committee and applicants are notified of the admission decision in writing via e-mail.

Sample MPH Projects

- A Review of Influenza Viruses in Seals & the Implications for Public Health
- Presence of *Leptospira* in the Farm Environment
- Modeling West Nile Virus (WNV) Positive Birds for Forecasting Human WNV Cases, New York State
- Evaluation of Delayed Exposure to *Mycobacterium Avium* Subsp. *Paratuberculosis* as an Animal Health and Potential Public Health Control Measure
- Serologic Screening for Antibodies to *Rickettsia* species in Cats and Opposums
- Identification and Modeling of the Immunological Effects of Trypanosomal Co-infection on *Brucella abortus* Chronicity
- Methicillin-Resistant *Staphylococcus aureus* Recovered From Therapy Dogs and Their Owners
- Federally Inspected Slaughter and Processing Plants: Occupational Health and Safety Considerations
- Prevalence of Avian Psittacosis in Los Angeles County
- Characterization, Transport, and Proliferation of *Salmonella* spp. in Surface Waters Used for Tomato Crop Irrigation
- Modeling WNV-Positive Birds for Forecasting Human WNV Cases: NY State

Sample Field Experiences

- **UC-Davis Primate Medicine Program**
utilize public health concepts and practices in association with my laboratory animal medicine residency while working with 5,000+ non-human primates; as a form of population/herd medicine, infectious disease control, management/leadership roles, and preventive medicine/surgery.
- **Maple Leaf Foods**
gain valuable knowledge in the areas of food safety, food and ingredient traceability, and foreign market food safety compliance from the perspective of a leading consumer North American food company that is a recognized leader in proactive food safety activities
- **World Health Organization**
obtain first hand understanding of how an international health organization works, what types of careers are available to a person with a DVM/MPH, and to appreciate the connections between human public health and veterinary public health and veterinary medicine
- **New Hampshire Department of Agriculture**
design a survey that will measure the current attitudes of New Hampshire veterinarians about clinic emergency preparedness and speaking to their clients about pet emergency preparedness and response
- **Centers for Disease Control**
work in an organization that is integral in public health and to understand how animal health is important to public health while learning how to communicate the importance of a unified health (animal and human)
- **One Health Coordination Office - USDA/APHIS**
apply the knowledge, theory, concepts, skills and abilities acquired to increase professional self-awareness and accumulate experience to help enhance job competence following completion of the MPH program
- **US Army Joint Base Lewis-McChord**
develop an understanding of the role of an Army Veterinarian in the public health infrastructure of the US Armed Forces with the intent of promoting a One Health Philosophy throughout the organization

Sample Graduate Placements

- Foodborne Illness Epidemiologist, Iowa Department of Public Health
- Research Associate, USGS National Wildlife Health Center, Madison, WI
- Resident, Center for Animal Health and Food Safety, U of MN
- Staff Veterinarian for Animal Health and Welfare, State of Virginia
- U.S. Army, Veterinary Field Services Officer
- Field Veterinarian, EcoHealth Alliance
- Commissioned Officer with US Public Health Service; USDA FSIS
- State Wildlife Veterinarian, Wyoming Game and Fish
- CDC – EIS Officer
- Assistant Manager of Animal Welfare, Hormel Foods
- Technical Services and Regulatory Veterinarian, HyLine International
- Shelter Veterinarian, San Diego Humane Society

Approved Transfer Courses (up to 14 credits can transfer from Cornell to the U of M)

- VTMED 5410: Veterinary Parasitology, 2.5 cr
- VTMED 5705: Veterinary Practice: Public Health, 1.5 cr
- VTMED 5706: Veterinary Practice: Professional Development, 1.5 cr
- VTMED 6198-6798: Special Projects in Veterinary Medicine, 1-4 cr
- VTMED 6199-6799: Research in Veterinary Medicine, 1-4 cr
- VTMED 6420: Foreign and Emerging Diseases of Animals, 1 cr
- VTMED 6421: Epidemiology of Infectious Diseases, 1 cr
- VTMED 6422: Clinical Biostatistics for Journal Readers, 1 cr
- VTMED 6425: Shelter Medicine I, 1 cr
- VTMED 6434: Shelter Medicine II, 1 cr
- VTMED 6430: Veterinary Perspectives on Pathogen Control in Animal Manure, 2 cr
- VTMED 6556: Dairy Herd Health Epidemiology, 1 cr
- VTMED 6602 Laboratory Animal Medicine, 2 cr
- VTMED 6604: Quality Milk, 2 cr
- VTMED 6610: Herd Health and Biosecurity Risk Evaluation Using the NYSCHAP Model, 2 cr
- VTMED 6723: Veterinary Medicine in Developing Nations, 2 cr
- VTMED 6726: Introduction to the Professional Literature, 1 cr
- VTMED 6735: Conservation Medicine, 1.5 cr