Veterinary Public Health - MPH

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.

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.

### Unique Features

- You can pursue your DVM at Purdue 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.
- A maximum of 14 graduate or DVM credits may transfer into the MPH degree program.
- 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.

### Curriculum

42 credits

**Core Curriculum (21-22 credits)**

- PubH 6299 - Public Health is a Team Sport: The Power of Collaboration (1 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 Literacy (3 cr) or PubH 6450 Biostatistics I (4 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 - MPH Project (1-3 cr)
- PubH 7296 - Field Experience (3-8 cr)

**Elective Curriculum (20-21 credits)**

Students may select elective courses from many focus areas including: 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.

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**For more information about the Veterinary Public Health Program**

http://www.sph.umn.edu/academics

**Program Director:** Larissa Minicucci, DVM, MPH minic001@umn.edu

**Program Coordinator:** Sarah Summerbell, BS peter415@umn.edu

**Purdue Faculty Liaison:** Audrey Ruple-Czerniak, DVM, MS, PhD aruplecz@purdue.edu

**Purdue Student Liaison:** Katrina Thornton, Class of 2017 kthornt@purdue.edu

**Application Deadline:** January 15
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. *An exception is in place for Purdue veterinary students without the baccalaureate degree.

Required Submissions

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

- Personal statement describing your educational experience and professional career objectives.
- Résumé/CV.
- Official transcripts 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.

Application Deadline

January 15.

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

Recent MPH Projects

- Prevention and Control of Equine Helminths: A Model for Addressing Helminth Parasites in Human Populations
- Canine Parvovirus in Los Angeles County: KAP Survey Identifies Vulnerable Population
- Assessment of www.reportfoodpoisoning.com Performance and Potential
- Assessment of Knowledge, Attitudes, and Beliefs of Health Professional Students on One Health
- After Completion of an Interprofessional Education Course
- Rabies Prevention Protocols and Policies and Staff Knowledge and Training in Animal Shelters in the US
- Iowa Food Protection Rapid Response Team Grant Application
- Animals in Disasters: A National Training Standard to Protect Public Health
- Characterization, Transport, and Proliferation of Salmonella spp. in Surface Waters Used for Tomato Crop Irrigation
- Federally Inspected Slaughter and Processing Plants: Occupational Health and Safety Considerations
- Avian Influenza in Minnesota Backyard Poultry Flocks
- Burnout Among Volunteers of the Listening Ear Crisis Intervention Center
- Public Health Implications of the African Bush Meat Trade
- Risk Communication for Global Animal Health Issues
- Proposed Strategies for Improved Diagnosis and Surveillance of Spotted Fever Group Rickettsioses in North Carolina

Sample Field Experiences

- **One Health Coordination Office:** apply the knowledge, theory, concepts, skills and abilities acquired in school during a summer student internship with USDA-APHIS One Health Coordination Office to increase professional self-awareness and accumulate experience to help enhance job competence
- **Bagram Airfield, Afghanistan:** gain experience and understanding in preventive principles through coordination and participation in Army Veterinary Service and Preventive Medicine 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 appreciate the connections between human public health and veterinary public health and veterinary medicine
- **PROSAR:** serve as an Information Specialist to provide product safety information, toxicology, and first aid information to callers (consumers, workers, and health care professionals) so that they can make informed decisions regarding the healthcare of humans and animals with potential exposures, adverse incidents, and health related questions
- **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)

Sample Graduate Placements

- Environmental Protection Agency, AAAS Fellow
- USDA-APHIS-VS, Import Risk Analyst
- Wyoming Game and Fish, State Wildlife Vet
- San Diego Humane Society, Shelter Vet
- Michigan Department of Community Health
- Laboratory Animal/Primate Medicine Resident at UC Davis
- Global Health Fellows Program, USAID, Livestock Advisor for the Office of Foreign Disaster Assistance
- CDC, Enteric Zoonoses Team (EZT) Lead
- Eisenhower Army Medical Center, Comparative Medicine Chief
- Rockefeller University Comparative Bioscience Center, Assistant Director
- County of Los Angeles, Department of Public Health, Cal-EIS Fellow
- Holden Farms, Research Coordinator
- HyLine International, Technical Services and Regulatory Veterinarian
- Redondo Veterinary Medical Center, Owner and Medical Director
- Hormel, Assistant Manager of Animal Welfare
- CDC-EIS
- MN Board of Animal Health, Senior Veterinarian
- SIM Ethiopia (mission agency), Women’s Outreach Coordinator/Station Manager for the Gumuz People
- USDA-FSIS, Supervisory Public Health Veterinarian
- Wetlands and Wildlife Care Center, Director of Veterinary Services

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>VM 80900 International Veterinary Medicine</td>
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<tr>
<td>VM 81000 Externship</td>
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<tr>
<td>VM 81900 Off Campus Black</td>
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<td>CPB 84000 Use and Care of Lab Animals</td>
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<tr>
<td>CPB 85400 Principles of Epidemiology</td>
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<td>CPB 86200 Clinical Epidemiology of Companion Animals</td>
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<td>CPB 86300 Epidemiology of Livestock Production</td>
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<tr>
<td>CPB 86900 Veterinary Public Health &amp; Zoonosis</td>
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<tr>
<td>CPB 88300 Veterinary Public Health</td>
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<tr>
<td>CPB 88400 Lab Animal Medicine</td>
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<tr>
<td>VM 89000 Independent Study</td>
<td>varies</td>
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<tr>
<td>VCS 89300 Shelter Medicine</td>
<td>1 (not offered every year)</td>
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All Homeland Security Certificate Courses (note: certificate program no longer admitting students)

Other courses will be considered on a case-by-case basis.