

GRADUATE CERTIFICATE IN ONE HEALTH

The Graduate Certificate in One Health increases the competence and ability of graduate students and professionals as they work in interdisciplinary teams to solve complex problems at the intersection of human, animal, and environmental health.

Learning Objectives

One Health emphasizes the integration between human, animal, and environmental health. The framework requires understanding across multiple disciplines working together at local, regional, national and global levels, and an ability to work in transdisciplinary teams.

Upon successful completion, students will be able to:

1. Describe genetic, biomedical, physiological, social, environmental, political, and economic factors that contribute to health and disease issues that can be solved using a One Health approach.
2. Develop an understanding of the multidisciplinary nature of the One Health framework.
3. Implement a systems thinking based approach to complex health problems that include human, animal, and environmental health.
4. Communicate with stakeholders and communities on the direct and indirect human, animal, and environmental impacts of hazards that are inherently One Health issues.
5. Identify and create collaborative relationships and research networks implementing the One Health approach in communities.
6. Recognize the roles of different members of a One Health team working at the human-animal-environment interface, and present how to assemble and manage such transdisciplinary team interactions.

Requirements Effective Fall 2026

Additional coursework may be required due to prerequisites.

Code	Title	Credits
Required Courses:		
PBHL 540/VS 540	One Health in Public Health	3
PBHL 642	One Health in Communities	3
PBHL 645	Team Science	3
Electives (select a minimum of one course):		2-4
AGRI 546	Principles of Cooperative Extension	
AGRI 562/ SOC 562	Sociology of Food Systems and Agriculture	
ANTH 571	Anthropology and Global Health	
ERHS 501	Disease in Public Health Action	
ERHS 549	Environmental Health Risk Assessment	
FSHN 500	Food Systems, Nutrition, and Food Security	
MIP 533/VS 533	Epidemiology of Infectious Diseases/ Zoonoses	
NR 505	Concepts in GIS	
NR 625	Community-Based Natural Resource Management	

SOWK 550	Animal Assisted Therapy and Human-Animal Bond
SOWK 557	Human-Animal Interventions--Grief and Loss
PBHL 530	Environmental Public Health and Policy
PBHL 570	Epidemiology for Public Health
PBHL 644	Physical Activity and Public Health

Program Total Credits: 11-13

*This certificate may have courses in common with other graduate certificates. A student may earn more than one certificate, but a given course may be counted only in one certificate.