

ONE HEALTH MINOR

The multidisciplinary One Health minor examines the interconnectedness between animal, human, plant, and environmental health by immersing students in coursework related to environmental health and ecosystem management, interdisciplinary approaches to disease dynamics and control, and sustainable agriculture, plant health, and food safety.

Requirements

Students must complete at least 18 credits, including PATH 1100E One Health: People, Animals, Plants, and the Environment. Students must take two courses from each theme. One course may overlap in two themes. At least 12 of the credits taken to satisfy the minor must be from courses that are not required for the student's major or other minors within the College of Agriculture, Health and Natural Resources. No more than six credits from any one subject area can count toward the minor.

Theme 1: Environmental Health and Ecosystem Management

Course	Title	Credits
AH 3175E	Environmental Health	3
ARE 3438E	Climate Economics	3
ARE 2525	Sustainability Policy and Management	3
ARE 2434E	Environmental and Resource Policy	3
ENVS 3100	Climate Resilience and Adaptation: Municipal Policy and Planning	3
KINS 4500	Exercise Physiology	3
KINS 4510	Advanced Topics in Health and Sport Performance	3
LAND 2210E	The Common (Shared) Landscape of the USA: Rights, Responsibilities and Values	3
LAND 2230E	Biophilic Cities and Landscapes	3
NRE 2215E	Introduction to Water Resources	3
NRE 2550	Nature-based Outdoor Recreation Resource Management	3
NRE 3000	Human Dimensions of Natural Resources	3
NRE 3105	Wetlands Biology and Conservation	3
NRE 3115	Air Pollution	3
NRE 3125	Watershed Hydrology	3
NRE 3150	Green Stormwater Infrastructure Practices	3
NRE 4150	Ecosystem Science and Management	3
NRE 4180	Climate Change Adaptation Science	3
NRE 4205	Stream Ecology	3
NRE 4255	Water Quality Management	3
NRE 4340	Ecotoxicology	3
NRE 4425	Urban and Community Forestry	3
PATH 2301	Health and Disease Management of Animals	3
PATH 3700	Emerging Infectious Diseases and Pandemics	3
PLSC 3230	Biotechnology - Science, Application, Impact, Perception	3
PLSC 3610	Organic and Sustainable Vegetable Production	3

Theme 2: Interdisciplinary Approach to Disease Dynamics and Control

Course	Title	Credits
AH 3021	Environment, Genetics and Cancer	3
AH 3030	Fundamentals of Brain, Behavior, and Health	3
AH 3060	Healthcare Genetics and Genomics	3
AH 3175E	Environmental Health	3
AH 3320	Introduction to Infectious Diseases	2
AH 3510	International Health	3
AH 4503	Poverty and Public Health	3
ARE 2260	Food Policy	3
KINS 3222	Mental Health in Sport	3
KINS 4510	Advanced Topics in Health and Sport Performance	3
KINS 2227	Exercise Prescription	3
KINS 3550	Exercise Prescription for Clinical Populations	3
KINS 4500	Exercise Physiology	3
NRE 4370	Population Health and Dynamics	3
NUSC 2200	Nutrition and Human Development	3
NUSC 3230	Community Nutrition	3
NUSC 4236	Nutritional Biochemistry and Metabolism	4
NUSC 4260	Dietary Supplements and Functional Foods	3
PATH 2100	Anatomy and Physiology of Animals	4
PATH 2200	Modern Biomedical Laboratory Techniques	3
PATH 2301	Health and Disease Management of Animals	3
PATH 2710	Medical Microbiology: Bacteria and Fungi	4
PATH 2720	Medical Microbiology: Viruses and Parasites	4
PATH 2800	Medical Cell Biology	3
PATH 3401	Immunobiology	3
PATH 3501	Diagnostic Techniques for the Biomedical Sciences	2
PATH 3700	Emerging Infectious Diseases and Pandemics	3
PATH 3810	Systems Pathophysiology I	3
PATH 3820	Systems Pathophysiology II	3
PATH 4000	Bioinformatics in Molecular Epidemiology of Infectious Diseases	3
PATH 4230	Vaccines and Immunotherapeutics	3
PLSC 3810	Fundamentals of Plant Pathology	3
PLSC 3840	Integrated Pest Management	3
NUSC 4270	Immunological Mechanisms of Disease	3

Theme 3: Sustainable Agriculture, Plant Health, and Food Safety

Course	Title	Credits
ANSC 3273	Livestock Management	4
ANSC 3313	Growth Biology and Metabolism in Domestic Livestock	3
ANSC 3318	Probiotics and Prebiotics	3
ANSC 3343	Animal Food Products	3

ANSC 4311	Advanced Animal Nutrition	3
ANSC 4341	Food Microbiology and Safety	3
NRE 4180	Climate Change Adaptation Science	3
NUSC 3233	Food Composition and Preparation	3
PLSC 1150	Agricultural Technology and Society	3
PLSC 2100E	Environmental Sustainability of Food Production in Developed Countries	3
PLSC 2500E	Principles and Concepts of Agroecology	3
PLSC 3230	Biotechnology - Science, Application, Impact, Perception	3
PLSC 3440	Small Fruit Production	3
PLSC 3610	Organic and Sustainable Vegetable Production	3
PLSC 3810	Fundamentals of Plant Pathology	3
PLSC 3840	Integrated Pest Management	3