

UConn | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

PLAN OF STUDY One Health MINOR

CATALOG STATEMENT: 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 no less than a total of 18 credits as outlined below.

ALL of the following:

Dept.	No.	Course Title	Credits
PATH	□ 1100E	One Health: People, Animals, Plants, and the Environment	3

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 – at least TWO COURSES

Dept.	No.	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 – at least TWO COURSES

Dept.	No.	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	□ 2227	Exercise Prescription	3
KINS	□ 3222	Mental Health in Sport	3
KINS	□ 3550	Exercise Prescription for Clinical Populations	3
KINS	□ 4500	Exercise Physiology	3
KINS	□ 4510	Advanced Topics in Health and Sport Performance	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
NUSC	□ 4270	Immunological Mechanisms of Disease	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

THEME 3: Sustainable Agriculture, Plant Health, and Food Safety – at least TWO COURSES

Dept.	No.	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

- At least 12 credits must not duplicate courses used in the student's major, or in other minors in the College of Agriculture, Health, and Natural Resources
- Students must earn a grade of "C" (2.0) or higher in each individual course listed above.
- Students must earn a combined grade point average of 2.5 or higher for all courses listed above.
- Students must complete all requirements for a baccalaureate degree. Once the minor has been declared, it will appear on the student's transcript.

MINOR ADVISOR: For more information on the minor or approval on the final Plan of Study for the minor, please contact one of the following minor advisors:

- Dr. Elsie Wunder, Pathobiology: elsio.wunder@uconn.edu
- Dr. Tracy Rittenhouse, Natural Resources and the Environment: tracy.rittenhouse@uconn.edu
- Dr. Mia Maltz, Plant Science and Landscape Architecture: mia.maltz@uconn.edu

DECLARATION PROCEDURE: Students who wish to declare the minor prior to graduation must submit the [CAHNR MINOR DECLARATION FORM](#), available on the Forms page of the CAHNR Undergraduate Academic Programs website.

APPROVAL: A plan of study for the minor signed by the department or program head, director, or faculty designee must be submitted to the Office of the Registrar via the Student Administration System during the first four weeks of the semester in which the student expects to graduate. For instructions, consult the [UConn Knowledgebase](#).