

ONE HEALTH MAJOR

Contact: Dr. Dawn Holliday, Chair

Email: dawn.holliday@wcmo.edu

The health of people, animals and the environment are intimately connected. This major recognizes these connections and studies health at their intersection. As the human population grows and the health of the environment degrades, humans are coming into closer contact with animals. Because of this, countries may see more Zoonotic diseases (e.g., Ebola) spreading to human populations. As human populations grow, they put more pressure on the environment and introduce more environmental chemicals, many with unknown and some with transgenerational effects. This major will set the scientific foundation and then explore some of the vectors that transmit disease, discuss global health issues, examine personal ethics, investigate the impacts of chemistry and delve into the interface of human, animals and the environment. This major will prepare students to address these One Health issues. Students with this major may find employment in both the public health sector as well as in wildlife biology or veterinary science. Students majoring in One Health may not also major or minor in Biology or Environmental Science.

Students may double major in Biochemistry (*Biological Emphasis*) but must do so in close coordination with the Department of Biological and Environmental Sciences. In order to earn a major in One Health, students must earn a letter grade of C- or better in all listed courses needed to satisfy major requirements. At least 50% of all One Health hours used to satisfy the major must be Westminster Courses.

Major: ONE HEALTH MAJOR

Student's Last Name

First Name

Middle Initial

Advisor

Date Major Declared

Course #	Title of Course	Hours Required	Semester Completed	Grade
Required Courses: (23 hrs.)				
BIO 114/115	Bioprocesses with Lab	4		
BIO 124/125	Biodiversity with Lab	4		
CHM 114/115	General Chemistry I with Lab	4		
CHM 124/125	General Chemistry II with Lab	4		
ENV 105	Intro. to Environmental Science with Lab	4		
MAT 114	Elementary Statistics	3		
<i>Students are encouraged to complete the above courses in their first 3-4 semesters.</i>				
Disease Transmission & Suppression (Complete one) (3-4 hrs.)				
BIO 300	Immunology	3		
BIO 303	Microbiology with Lab	4		
BIO 315	Entomology with Lab	4		
BIO 330	Virology (BIO 301 recommended)	3		
Human Health (6 hrs.)				
Required:				
HES 261	Intro to Epidemiology	3		
Complete one:				
HES/GTS 240	Intro to Global Public Health	3		
HES/WGS 355	Women's Health Issues	3		
HES 357	Community Nutrition	3		
Ethical Perspectives and the Environment (Complete one) (3 hrs.)				
PHL 246	Environmental Ethics	3		
REL 324	Religion and the Environment	3		
Animals Interacting with their Environment (Complete one) (3-4 hrs.)				
BIO 205	Ecology & Field Biology with Lab	4		
ENV 350	Conservation Biology	3		
The Health Impacts of Chemistry (Complete one) (3 hrs.)				
BIO 310	Environmental Toxicology	3		
CHM 410	Medicinal Chemistry	3		
Capstone (1 hr.)				
BIO 400	One Health Capstone	1		
		TOTAL HOURS FOR MAJOR	41-44 hrs	

If any substitutions or waivers of requirements are allowed, please list below and initial.

Advisor Signature: _____ Department Chair Signature: _____