



ONE HEALTH MAJOR

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The health of people, animals and the environment is 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, Biochemistry (either emphasis) or Environmental Science/Studies. In order to earn a Major in One Health, students must earn a letter grade of C- or better in all biology courses needed to satisfy major requirements and attain a 2.0 average or higher in these courses. At least 50% of all One Health hours used to satisfy the major must be Westminster Courses.

You can find the course descriptions for all courses required for this major by clicking on the following links:

- [Biology Course Descriptions](#)
- [Chemistry Course Descriptions](#)
- [Environmental Science Course Descriptions](#)
- [Health and Exercise Science Course Descriptions](#)
- [Mathematics Course Descriptions](#)
- [Philosophy Course Descriptions](#)
- [Religious Studies Course Descriptions](#)

Major: ONE HEALTH

Student's Last Name

First Name

Middle Initial

Advisor

Date Major Declared

Course #	Title of Course	Hours Required	Semester Completed	Grade
Required Courses: (22 hrs.)				
BIO 124/125	Biodiversity	4		
BIO 114/114	Bioprocesses	4		
CHM 114/115	General Chemistry I	4		
CHM 124/125	General Chemistry II	4		
ENV 105	Intro. to Environmental Science with lab	4		
MAT 114	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 303	Microbiology (BIO 114/115 & 124/125 prereqs)	4		
BIO 315	Entomology	4		
BIO 330	Virology (BIO 301 recommended)	3		
BIO 413	Immunology	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	4		
BIO/ENV 350	Conservation Biology	3		
The Health Impacts of Chemistry (Complete one) (3 hrs.)				
BIO 310	Environmental Toxicology	3		
CHM 410	Medical Chemistry	3		
Capstone (1 hr)				
BIO/ENV/HES 400	One Health Capstone	1		
TOTAL HOURS FOR MAJOR		41-44 hrs.		