Spring 2027 Global Health Major Courses

Updated 10/22/2026. Please see Course Search & Enroll for more details and current information.

Course name	Number	Title	Credits
Math/Stats			
Math	112	College Algebra	3
Math	113	Trigonometry	3
Math	114	Precalculus	5
Stat	240	Data Science Modeling I	4
Stat	301	Introduction to Statistical Methods	3
Stat	371	Introductory Applied Statistics for the Life Sciences	3
Chemistry			
Chemistry	103	General Chemistry I	4
Chemistry	104	General Chemistry I	5
Biology			
Biology/Zoology	101	Animal Biology	3
Biology/Zoology	102	Animal Biology Laboratory	2
Botany/Biology	130	General Botany	5
Biology/Botany/Zoology	151	Introductory Biology	5
Biology/Botany/Zoology	152	Introductory Biology	5
Biocore	383	Cellular Biology	3
Biocore	384	Cellular Biology Laboratory	2
Social Science A			
Amer Ind	100	Introduction to American Indian Studies	3
Anthro	265	Introduction to Culture and Health	3
Gen&WS	102	Gender, Women, and Society in Global Perspective	3
Gen&WS	103	Gender, Women, Bodies, and Health	3
Gen&WS	104	Gender, Sexuality, and Global Health	3
Gen&WS/Soc	200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3
Soc	134	Sociology of Race & Ethnicity in the United States	4
Soc	170	Population Problems	3
Social Science B			
AAE	101	Introduction to Agricultural and Applied Economics	4
Agroecol/C&E Soc/Entom/Envir St	103	Agroecology: An Introduction to the Ecology of Food and Agriculture	3

C&E Soc/Soc	140	Introduction to Community and Environmental Sociology	4
Geog	101	Introduction to Human Geography	4
Geog/Envir St	139	Global Environmental Issues	3
Intl St	101	Introduction to International Studies	4
LSC	212	Introduction to Scientific Communication	3
Philos	241	Introductory Ethics	4
Poli Sci	272	Introduction to Public Policy	3
Core			
Entom	205	Our Planet, Our Health	3
Pop Hlth/C&E Soc	370	Introduction to Public Health	3
Agroecology	377	Global Food Production and Health	3
Hist Sci/Envir St	213	Global Environmental Health: An Interdisciplinary Introduction	3
Nutr Sci	379	Introduction to Epidemiology	3
Microbio	345	Introduction to Disease Biology	3
Depth (Public Health, Policy, and Development)			
Comm Arts	317	Rhetoric and Health	3
CSCS	410	Human Trafficking: Global and Local Perspectives	3
CSCS	470	The Human Rights of Children and Youth: Global and Local Perspectives	3
Design Studies	521	Environments of Crisis & Design	3
Econ/Pop Hlth/Pub Affr	548	The Economics of Health Care	3
Gen&WS/Intl St	535	Women's Global Health and Human Rights	3
Inter-Ag	473	Health Impacts of Unmet Social Needs*	3
LSC	625	Risk Communication	3
Med Hist/Philos	558	Ethical Issues in Health Care	3
Nutr Sci	379	Introduction to Epidemiology	3
Pop Hlth/C&E Soc	370	Introduction to Public Health	3
Pub Affairs	520	Inequality, Race and Public Policy	3
Soc/C&E Soc	343	Sociology of Health and Medicine	3
Soc/C&E Soc/Amer Ind	578	Poverty and Place	3
Depth (Food Systems and Nutrition)			
Agroecology	377	Global Food Production and Health	3
Biochem/Nutr Sci	510	Nutritional Biochemistry and Metabolism	3
Botany/Amer Ind/Anthro	474	Ethnobotany	3
Dy Sci	471	Food Production Systems and Sustainability	3
Med Hist/C&E Soc/Philos	565	The Ethics of Modern Biotechnology	3
Nutr Sci	332	Human Nutritional Needs	3
Nutr Sci/AAE	350	World Hunger and Malnutrition	3
Nutr Sci	431	Nutrition in the Life Span	3
Plantsci	338	Plant Breeding and Biotechnology	3

Plantsci	360	Genetically Modified Crops: Science, Regulation & Controversy	2
Depth (Ecosystem Sustainability and Planetary Health)			
AAE/Econ/Envir St	343	Environmental Economics	4
Atm Ocn/Envir St	355	Introduction to Air Quality	3
Botany/F&W Ecol/Zoology	460	General Ecology	4
Botany	516	Conservation Biology	3
Civ Engr	423	Air Pollution Effects, Measurement and Control	3
Envir St/Philos	441	Environmental Ethics	4
Geog/Atm Ocn/Envir St	332	Global Warming: Science and Impacts	3
Geog/Envir St	339	Conservation and Climate Change - Local to International Strategies	4
Geog/Envir St/GLE/Geosci/Land Arc	371	Introduction to Enviromental Remote Sensing	3
Geog/Civ Engr/Envir St	377	An Introduction to Geographic Information Systems	4
Geog/Soil Sci	526	Human Transformations of Earth Surface Processes	3
Kines	516	Climate Change and Health Disparities	3
M&Envtox/Civ Engr/Soil Sci	631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
Pop Hlth/Envir St	471	Introduction to Environmental Health	3
Soil Sci	430	Soil Pollution and Human Health	3
Urban Planning	550	Transportation and the Built Environment	3
Depth (Disease Biology)			
Anat&Phy	335	Physiology	5
Anat&Phy	435	Fundamentals of Human Physiology	5
An Sci/Dy Sci	320	Animal Health and Disease	3
Biochem	301	Survey of Biochemistry	3
Biochem	501	Introduction to Biochemistry	3
Biochem/Nutr Sci	560	Principles of Human Disease and Biotechnology	2
Biocore	587	Biological Interactions	3
Genetics	466	Principles of Genetics	3
Genetics	548	The Genomic Revolution	3
Genetics/MD Genet	565	Human Genetics	3
M M & I/Biochem	575	Biology of Viruses	2
Microbio	303	Biology of Microorganisms	3
Microbio	304	Biology of Microorganisms Laboratory	2
Microbio/Botany	335	The Microbiome of Plants, Animals, and Humans	3
Microbio	345	Introduction to Disease Biology	3
M&Envtox/Oncology/Phm Sci/Phmcol-M/Pop Hlth	626	Toxicology II	3
Path	404	Pathophysiologic Principles of Human Diseases	3
Path	501	Topics in Environmental Viral Pathogen Surveillance	3
Depth (Optional Field Experience)			
Nutr Sci	421	South Madison Community Engagement and Youth Nutrition Education* (Slow Food)	2

Capstone			
Entom	375	Outbreak Intervention**	3
Entom	570	Systems Thinking in Global Health	3
Biocore	587	Biological Interactions	3
CSCS	470	The Human Rights of Children and Youth: Global and Local Perspectives	3
Dy Sci	471	Food Production Systems and Sustainability	3
Gen&WS/Intl St	535	Women's Global Health and Human Rights	3

**Denotes a program that requires an application*

***NEW capstone course that explores response strategies to outbreaks involving One Health issues. Learn from experts across multiple areas on how to plan and implement a response plan for an outbreak associated with a One Health issue. Learn how to design communication plans, how to develop animal models to understand transmission, and how the economic impact of an outbreak is estimated at the national and international level.*

Note: Some courses may have listed pre-requisites or enrollment restrictions less commonly taken by Global Health students. Pay attention to pre-reqs and check enrollment restrictions in Course Search & Enroll.