

Global Health Major: Spring 2026 Course Offerings

Mathematics and Statistics Courses

Math 112: Algebra
Math 113: Trigonometry
Math 114: Algebra and Trigonometry
Stats 301: Intro to Statistical Methods
Stats 371: Intro to Applied Statistics for the Life Sciences
Stats 240: Data Science Modeling I

Introductory Biology Courses

Bio 151: Introductory Biology
Bio 152: Introductory Biology
Zoo 101: Animal Biology
Zoo 102: Animal Biology Laboratory
Botany 130: General Botany
Biocore 383: Cellular Biology*
Biocore 384: Cellular Biology Lab*

General Chemistry Courses

Chem 103: General Chemistry I
Chem 104: General Chemistry II

Social Science A Courses

AMERIND 100: Introduction to American Indian Studies
ANTHRO 265: Introduction to Culture and Health
GEN&WS 103: Gender, Women, Bodies, and Health
GEN&WS/ SOC 200: Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies
SOC 134: Sociology of Race & Ethnicity in the United States
SOC 170: Population Problems

Social Science B Courses

A A E 101: Introduction to Agricultural and Applied Economics
C&E SOC/ SOC 140: Introduction to Community and Environmental Sociology
GEOG 101: Introduction to Human Geography
GEOG/ ENVIR ST 139: Global Environmental Issues
INTL ST 101: Introduction to International Studies
LSC 212: Introduction to Scientific Communication
PHILOS 241: Introductory Ethics

Core Courses

Entom 205: Our Planet, Our Health
Pop Hlth 370: Introduction to Public Health
Agroecology 377: Global Food Production and Health
HIST SCI/ ENVIR ST 213: Global Environmental Health: An Interdisciplinary Introduction
Nutr Sci 379: Introduction to Epidemiology
Microbio 345: Introduction to Disease Biology

Capstone Courses

Entom 570: Systems Thinking in Global Health
Dy Sci 471: Food Production Systems and Sustainability
Biocore 587: Biological Interactions*

Depth Courses: Public Health, Policy, and Development

COM ARTS 317: Rhetoric and Health
DS 521: Environments of Crisis & Design
ECON/ POP HLTH/ PUB AFFR 548: The Economics of Health Care*
GEOG 307: International Migration, Health, and Human Rights
HISTORY/ INTL ST 330: Global History of Humanitarianism
I SY E 417: Health Systems Engineering*
LEGAL ST 473: Health Impacts of Unmet Social Needs**
LSC 625: Risk Communication*
MED HIST/ HIST SCI 509: The Development of Public Health in America
MED HIST/ PHILOS 558: Ethical Issues in Health Care
NUTR SCI 379: Introduction to Epidemiology
POP HLTH/ C&E SOC 370: Introduction to Public Health
PUB AFFR 520: Inequality, Race and Public Policy*
SOC/ C&E SOC 343: Sociology of Health and Medicine
SOC/ AMER IND/ C&E SOC 578: Poverty and Place*
SOC/ C&E SOC 630: Sociology of Developing Societies/Third World

Notes:

*These 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.

**Application required for program/course.

Depth Courses: Food Systems and Nutrition

A A E/ ECON 477: Agricultural and Economic Development in Africa
PLANTSCI 338: Plant Breeding and Biotechnology
AGROECOL 377: Global Food Production and Health
BIOCHEM/ NUTR SCI 510: Nutritional Biochemistry and Metabolism
DY SCI 471: Food Production Systems and Sustainability
GEOG/ ENVIR ST 309: People, Land and Food: Comparative Study of Agriculture Systems
PLANTSCI 360: Genetically Modified Crops: Science, Regulation & Controversy
PLANTSCI 380: Indigenous Foodways: Food and Seed Sovereignty
MED HIST/ C&E SOC/ PHILOS 565: The Ethics of Modern Biotechnology
NUTR SCI 332: Human Nutritional Needs
NUTR SCI/ A A E 350: World Hunger and Malnutrition
NUTR SCI 431: Nutrition in the Life Span

Depth Courses: Disease Biology

ANAT&PHY 335: Physiology
ANAT&PHY 435: Fundamentals of Human Physiology
AN SCI/ DY SCI 320: Animal Health and Disease
BIOCHEM 301: Survey of Biochemistry
BIOCHEM 501: Introduction to Biochemistry
BIOCHEM/ NUTR SCI 560: Principles of Human Disease and Biotechnology
BIOCORE 587: Biological Interactions***
ENTOM/ ZOOLOGY 371: Medical Entomology: Biology of Vector and Vector-borne Diseases
GENETICS 466: Principles of Genetics
M M & I/ BIOCHEM 575: Biology of Viruses
MICROBIO 303: Biology of Microorganisms
MICROBIO 304: Biology of Microorganisms Laboratory
MICROBIO/ AN SCI/ BOTANY 335: The Microbiome of Plants, Animals, and Humans
MICROBIO 345: Introduction to Disease Biology
M&ENVTOX/ PATH/ PHM SCI/ PHM COL-M/ POP HLTH 626: Toxicology II
PATH-BIO/ ENTOM/ M M & I/ ZOOLOGY 350: Parasitology
PATH 404: Pathophysiologic Principles of Human Diseases

Depth Courses: Ecosystem Sustainability and Planetary Health

A A E/ ECON/ ENVIR ST 343: Environmental Economics
ATM OCN/ ENVIR ST 355: Introduction to Air Quality
BOTANY/ F&W ECOL/ ZOOLOGY 460: General Ecology
BOTANY/ ENVIR ST/ F&W ECOL/ ZOOLOGY 516: Conservation Biology
CIV ENGR 423: Air Pollution Effects, Measurement and Control*
ENVIR ST/ HISTORY 465: Global Environmental History
GEOG/ ATM OCN/ ENVIR ST 332: Global Warming: Science and Impacts
GEOG/ ENVIR ST 339: Environmental Conservation
GEOG/ ENVIR ST/ F&W ECOL/ G L E/ GEOSCI/ LAND ARC 371: Introduction to Environmental Remote Sensing
GEOG/ CIV ENGR/ ENVIR ST 377: An Introduction to Geographic Information Systems
GEOG/ SOIL SCI 526: Human Transformations of Earth Surface Processes
LAND ARC 363 Earth Partnership: Restoration Education for Equity and Resilience
M&ENVTOX/ CIV ENGR/ SOIL SCI 631: Toxicants in the Environment: Sources, Distribution, Fate, & Effects
POP HLTH/ ENVIR ST 471: Introduction to Environmental Health
SOIL SCI 430: Soil Pollution and Human Health

Global Health Field Experiences Optional Depth

Students in the major may count up to 3 credits of field experience as depth credits.

Local Field Experience Programs/Internships**Applications Required**

Center for Patient Partnerships Resource Navigator Program (Application due *October 26*)**
South Madison Community Engagement and Youth Nutrition Education (Application due *November 21*)**
AHEC Community Health Immersion (Application due *November 16*)**

Local Field Experience Courses

LAND ARC 363: Earth Partnership: Restoration Education for Equity and Resilience
NURSING 436: Health and Illness Concepts with Individuals, Families, and Communities: Experiential Learning (Second year clinicals, Nursing students only)*