

# B.S. IN GLOBAL HEALTH STUDIES (PRE-MED)

## Overview

The Bachelor of Science in Global Health Studies (Pre-Med) provides students with an interdisciplinary perspective to understanding how issues surrounding global health relate to the greater impacts on society, culture, and the environment. This major combines social science and humanist perspectives and crosses the disciplines of anthropology, religious studies, geography, regional studies, classics, history, literature, and sociology.

The GHS (Pre-Med) major (24 credits plus pre-med requirements) will fulfill the STEM area of knowledge requirement.

Whereas medicine as a field addresses disease diagnosis and care, the field of global health is much broader, and still being defined. Global health in the social sciences encompasses disease prevention, education, health policy, access, and resiliency. Global health in the humanities examines the history and cultural significance of medicine and health from ancient times to today. This major provides students with the opportunity to explore the cultural and social aspects of health and underlying causes that affect the well-being and provide an important interdisciplinary platform for the empirical and theoretical interaction of humanists and social scientists.

## Curriculum Requirements

Code	Title	Credit Hours
<b>General Education Requirements</b>		
Written Communication Skills:		
WRS 105	First-Year Writing I	3
WRS 106 or WRS 107 or ENG 106	First-Year Writing II First-Year Writing II: STEM Writing About Literature and Culture	3
Quantitative Skills:		
Fulfilled through the Calculus Sequence		
Areas of Knowledge:		
Arts and Humanities Cognate		9
People and Society Cognate		9
STEM Cognate (9 credits) (fulfilled through the major)		
<b>Additional Requirements</b>		
Calculus Sequence (B.S. Requirement)		8
MTH 161 & MTH 162	Calculus I and Calculus II	
MTH 140 & MTH 141 & MTH 162	Calculus Concepts with Foundations A and Calculus Concepts with Foundations B and Calculus II	
MTH 171 & MTH 172	Calculus I and Calculus II	
UMX 100	The University of Miami Experience	0
Language Requirement		3-9
Minor Requirement		15
<b>GHS Required Core Course</b>		
GHS 201	Introduction to Global Health	3
<b>GHS Methods Course (Choose 3 credits)</b>		<b>3</b>
GHS 310	Hospital Ethnography	
SOC 210	Introduction to Social Research	
GEG 306	Geographic Research Methods	
PSY 292	Introduction to Biobehavioral Statistics Section B	
<b>GHS Policy Course (Choose 3 credits from the following)</b>		<b>3</b>
GHS 572	Global Health Policy and Ethics	
SOC 321	Applied Health Policy	
INS 201	Globalization and Change in World Politics	
<b>GHS Electives <sup>1</sup></b>		<b>12</b>
<b>Humanities (Choose at least 3 credits from the following)</b>		

REL 161	Religion and Medicine: Health Care as Spiritual Practice
REL 360	Religion and Bioethics
CLA 233	Ancient Medicine
PHI 334	Biomedical Ethics
<b>Social Sciences (Choose at least 3 credits from the following)</b>	
GHS 312	People, Plagues, and Pandemics
GEG 241	Health and Medical Geography
APY 413	Medical Anthropology
SOC 384	Medical Sociology
<b>Additional GHS Elective Options</b>	
APY 105	HIV: Sex, Science, and Society
APY 202	Principles of Cultural Anthropology
APY 230	The Sounds of the World's Languages
APY 205	Medicine and Health Care in Society
APY 307	Human Adaptation
APY 315	Folk and Alternative Medicine: Psychedelic Plants in Cultural Context
APY 320	The Evolution of Language
APY 385	Caribbean Cultures
APY 393	Drugs and Culture
APY 397	Violence and Ritual
APY 413	Medical Anthropology
APY 414	Human Osteology
APY 416	Bioarchaeology-Peopling the past
APY 421	Interpreting Bodies
APY 423	Paleopathology: Health and disease in ancient peoples
APY 501	Methods of Anthropological Research
APY 512	Advanced Medical Anthropology
CLA 211	Medical Terminology
CLA 222	Sexuality and Gender in the Ancient World
CLA 225	Magic and the Occult in Antiquity
CLA 231	Sciences in Ancient Greece and Rome
CLA 233	Ancient Medicine
ECO 386	Health Economics
ENG 240	Literature and Medicine
GEG 105	World Regional Geography
GEG 110	Introduction to Human Geography
GEG 241	Health and Medical Geography
GEG 306	Geographic Research Methods
GEG 331	Sustainable Development
GEG 335	Sustainable Food Systems
GEG 336	Hazards and Disasters: The Nature-Society Interface
GEG 337	Climate Change, Sea Level Rise and Society
GEG 338	Landscape Character, Dynamics, Evolution; Influence on Societal Habitation and Risks
GEG 341	Population, Health, and Environment
GEG 343	Population, Sustainability, and the Media
GEG 345	Global Water Security Sustainability
GEG 346	Immigrant and Refugee Health
GEG 348	Climate Change and Public Health
GEG 412	GIS for Health and Environment
GEG 432	Climate Change and Security

GHS 301	Sociocultural Foundations of Global Health
GHS 310	Hospital Ethnography
GHS 312	People, Plagues, and Pandemics
GHS 330	Topics in Global Health Studies: Humanities
GHS 331	Topics in Global Health Studies: Social Sciences
GHS 430	Advanced Seminar in Global Health Studies: Humanities
GHS 431	Advanced Seminar in Global Health Studies: Social Sciences
GHS 440	Global Health Response to Disasters: From Management to Recovery and Reconstruction
GHS 570	Globalization and Health
GHS 571	Global Health and International Development
GHS 572	Global Health Policy and Ethics
GSS 201	Introduction to Gender and Sexuality Studies
GSS 315	Gender, Race, and Class
GSS 335	LGBTQ Communities
GSS 361	Gender and Language
GSS 347	Issues in Reproductive Medicine
GSS 348	Mental Illness, Gender, and Psychiatry
GSS 405	Gender and Sexuality in Cultural Context
HIS 330	The Scientific Revolution
HIS 351	Science and Society
INS 101	Global Perspectives
INS 103	World in Crisis
INS 201	Globalization and Change in World Politics
INS 359	Culture, Civilizations and Religion in International Relations
INS 509	International Migration and the Health Care System
LAS 301	Interdisciplinary Topics in Latin American and Caribbean Studies
LAS 302	Interdisciplinary Topics in Latin American and Caribbean Studies-Travel Course
LAS 362	Drug Trafficking in Latin America and the Caribbean
MLL 322	Topics in Comparative Cultural Studies
MLL 330	Comparative Topics in Gender and Sexuality
MLL 340	Migration Studies
MLL 360	The Caribbean through Literary and Cultural Studies
MLL 370	Studies in Literature, Culture, and Science
PHI 106	Introduction to Philosophy and Health Sciences
PHI 238	Environmental Ethics
PHI 334	Biomedical Ethics
PSY 411	Relationships and Health
PHI 241	History and Philosophy of Science
PHI 546	Evidence and Knowledge in Medicine
POL 303	Refugees and Migrants
POL 316	Politics of Globalism
POL 341	Nationalism, Ethnicity, and Political Conflict
POL 344	Gender and Politics
POL 359	International Organizations
POL 362	Social Movements
POL 569	LGBTI Politics
POL 571	Sex, Babies, and the State
PSY 411	Relationships and Health
PSY 426	Health Psychology
PSY 445	Cultural, Values, Religiosity, and Mental Illness

REL 161	Religion and Medicine: Health Care as Spiritual Practice	
REL 345	Religion and Gender	
REL 351	Death and Dying	
REL 352	Religion and Science	
REL 360	Religion and Bioethics	
REL 364	Spiritual Healing in the Americas from Controversy to Cure	
SOC 320	Social Epidemiology: Illness and Death in Society	
SOC 345	Population and Society	
SOC 368	Violence in America	
SOC 375	Sociology of Mental Health and Illness	
SOC 377	Sociology of Drug Abuse	
SOC 381	Aging in Society	
SOC 384	Medical Sociology	
SOC 480	Health Disparities in the U.S.	
SPA 433	Medical, Cultural and Bioethical Debates in Spanish	
<b>GHS Capstone Experience <sup>2</sup></b>		<b>3-6</b>
The capstone experience must focus on issues/experiences related to global or planetary health. Students will be able to choose between the following capstone experiences.		
GHS 505 & GHS 506	Global Health Studies Senior Thesis I: Humanities and Global Health Studies Senior Thesis II: Humanities	
GHS 507 & GHS 508	Global Health Studies Senior Thesis I: Social Sciences and Global Health Studies Senior Thesis II: Social Sciences	
GHS 590	Global Health Internship	
<b>Pre-Med Requirements</b>		
Students must satisfy the requirements of the Office of Pre-Health Advising and Mentoring (Sample Plan of Study, May Vary with Advising)		
Statistics Course		3
BIL 150	General Biology	4
BIL 151	General Biology Laboratory	1
BIL 160	Evolution and Biodiversity	4
BIL 161	Evolution and Biodiversity Laboratory	1
CHM 121 & CHM 113	Principles of Chemistry and Chemistry Laboratory I	5
CHM 221 & CHM 205	Introduction to Structure and Dynamics and Chemical Dynamics Laboratory	5
CHM 222 & CHM 206	Organic Reactions and Synthesis and Organic Reactions and Synthesis Laboratory	6
BMB 401	Biochemistry for the Biomedical Sciences	4
PHY 101 & PHY 106 or PHY 201	College Physics I and College Physics Laboratory I University Physics I for the Sciences	4
PHY 102 & PHY 108 or PHY 202	College Physics II and College Physics Laboratory II University Physics II for the Sciences	4
PSY 110	Introduction to Psychology	3
SOC 101	Introduction to Sociology	3
<b>Total Credit Hours</b>		<b>121</b>

<sup>1</sup> Electives from outside of the College of Arts & Sciences may be taken with the approval of the GHS Director and the Course Instructor.

<sup>2</sup> The Capstone experience will vary by student but should focus on issues/experiences related to global or planetary health. Students who enter into the accelerated 5-year program will be advised to take the thesis or research project course to begin their research for their Master's degree. Similarly, students may be advised to take the internship course to satisfy their capstone requirement so that they may engage in fieldwork and practical experiences.

- \* All Pre-health students must select a major as specified in the undergraduate bulletin. There are two distinct areas of academic preparation for the pre-health student. First, students must fulfill degree requirements and second, they must complete the requirements for admission to health professional school. Students do not need to major in a biological or physical science in order to declare a pre-health track.
- \*\* If students choose a major outside the natural sciences it is important to take additional science courses beyond the required pre-health courses to prepare for the professional school entrance exam.
- \*\*\* Pre-health students are expected to maintain a full-credit load of at least 15 credits.

## Sample Plan of Study

Year One		Credit Hours
<b>Fall</b>		
WRS 105	First-Year Writing I	3
BIL 150	General Biology	4
BIL 151	General Biology Laboratory	1
CHM 121	Principles of Chemistry	4
CHM 113	Chemistry Laboratory I	1
MTH 161	Calculus I	4
UMX 100	The University of Miami Experience	0
<b>Credit Hours</b>		<b>17</b>
<b>Spring</b>		
WRS 106, 107, or ENG 106	First-Year Writing II or First-Year Writing II: STEM or Writing About Literature and Culture	3
BIL 160	Evolution and Biodiversity	4
BIL 161	Evolution and Biodiversity Laboratory	1
CHM 221	Introduction to Structure and Dynamics	4
CHM 205	Chemical Dynamics Laboratory	1
MTH 162	Calculus II	4
<b>Credit Hours</b>		<b>17</b>
<b>Year Two</b>		
<b>Fall</b>		
CHM 222	Organic Reactions and Synthesis	4
CHM 206	Organic Reactions and Synthesis Laboratory	2
GHS 201	Introduction to Global Health	3
Language Course		3
<b>Credit Hours</b>		<b>12</b>
<b>Spring</b>		
BMB 401	Biochemistry for the Biomedical Sciences	4
SOC 101	Introduction to Sociology	3
Arts and Humanities Cognate Course		3
People and Society Cognate Course		3
Minor Course		3
<b>Credit Hours</b>		<b>16</b>
<b>Year Three</b>		
<b>Fall</b>		
PHY 201	University Physics I for the Sciences	4
COS 324	Health Communication	3
GHS 301	Sociocultural Foundations of Global Health	3
Minor Course		3
Arts and Humanities Cognate Course		3
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
PHY 202	University Physics II for the Sciences	4
SOC 321	Applied Health Policy	3

GHS 310	Hospital Ethnography	3
Arts and Humanities Cognate Course		3
Minor Course		3
<b>Credit Hours</b>		<b>16</b>
<b>Year Four</b>		
<b>Fall</b>		
GHS 312	People, Plagues, and Pandemics	3
REL 161	Religion and Medicine: Health Care as Spiritual Practice	3
PSY 110	Introduction to Psychology	3
Minor Course		3
People and Society Cognate Course		3
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
GHS Capstone Experience		3
Minor Course		3
People and Society Cognate Course		3
Statistics Course		3
<b>Credit Hours</b>		<b>12</b>
<b>Total Credit Hours</b>		<b>121</b>

## Mission

The mission of the Global Health Studies program is to provide students with a multidisciplinary program that combines social science and humanist perspectives across disciplines that include anthropology, religious studies, geography, regional studies, classics, history, literature and sociology. Global health in the social sciences encompasses disease prevention, education, health policy, access and resiliency. In the humanities it examines the history and cultural significance of medicine and health from ancient times to today. Students in this program stand to benefit from the University's advantageous geographic location that connects people and institutions from everywhere in the world. Miami, and the University, presents students with opportunities to examine the complex world of global health from multiple perspectives, participate in state of the art research, engage with a vibrant local and international community, and collaborate in developing sustainable solutions for global health issues.

## Goals

The program aims for students to:

- Understand the complexities of global health issues from the social science and humanist perspectives
- Understand how issues surrounding global health relate to the greater impacts on society, culture and the environment
- Understand the cultural competencies, ethical challenges and sustainable solutions in addressing global health issues
- Understand health policy and governance at the local and global levels
- Acquire leadership and advocacy skills
- Gain quantitative and qualitative research skills to integrate stakeholders and researchers in the design, implementation, and interpretation of community-based participatory studies
- Prepare students to assist private, government, non-profit, and for-profit organizations formulate new global and community health strategies

## Student Learning Outcomes

- Students will demonstrate knowledge of cultural competencies, ethical challenges and sustainable solutions related to global health issues.
- Students will demonstrate knowledge of quantitative and qualitative methods within global health research.
- Students will be able to critically analyze global health issues from multidisciplinary perspectives, including social, economic, political and environmental factors that shape individual, community, and population health.