Health & Human Biology Themes

This document provides a list of courses that HHB concentrators have used to fulfill the various theme and elective requirements. The courses listed here are only examples. Students may find other courses of interest and should discuss these with the concentration advisor in choosing a cohesive grouping for the theme. Students select four theme courses (no more than two from the same department) and two related Biology electives (one over the 1000 level).

Health Behavior (Brain & Behavior)

The Brain and Behavior theme is aimed at providing a framework for thinking about how brain activity is involved in producing behavioral actions. Brain function can be examined from a neuroanatomical, neurodevelopmental, neurochemical and/or a neurophysiological perspective. The emphasis should be on how these factors can influence human health and disease.

Sample Theme Courses
(Choose 4, but no more than 2 from same dept)

- CLPS 0110: Mechanisms of Animal Behavior
- CLPS 0200: Human Cognition
- CLPS 0220: Making Decisions
- CLPS 0400: Brain Damage and the Mind
- CLPS 0500: Perception and Mind
- CLPS 0510: Perception, Illusion, and the Visual Arts
- CLPS 0610: Children’s Thinking
- CLPS 0701: Personality
- CLPS 1150: Memory and the Brain
- CLPS 1193: Laboratory in Genes and Behavior
- CLPS 1290: Laboratory in Cognitive Processes
- CLPS 1291: Computational Cognitive Science
- CLPS 1400: The Neural Basis of Cognition
- CLPS 1490: Functional Magnetic Resonance Imaging: Theory and Practice
- CLPS 1492: Computational Cognitive Neuroscience
- CLPS 1510: Psychology of Hearing
- CLPS 1610: Cognitive Development
- CLPS 1650: Child Language Acquisition
- CLPS 1700: Abnormal Psychology
- CLPS 1790: Personality and Clinical Assessment
- ANTH 0200: Culture and Human Behavior
- ANTH 0300: Culture and Health
- ANTH 1300: Anthropology of Addiction & Recovery
- ANTH 1880: From Magic Mushrooms to Big Pharma

Sample Biology Electives (related to the theme)
(Choose 2, including at least one at the 1000 level)

- NEUR 0010: The Brain: An Introduction To Neuroscience
- NEUR 0700: Psychoactive Drugs and Society
- NEUR 1020: Principles of Neurobiology
- NEUR 1030: Neural Systems
- NEUR 1040: Introduction to Neurogenetics
- NEUR 1440: Neural Dynamics
- NEUR 1540: Neurobiology of Learning and Memory
- NEUR 1600: Experimental Neurobiology
- NEUR 1650: Structure of the Nervous System
- NEUR 1670: Neuropharmacology and Synaptic Transmission
- NEUR 1680: Computational Neuroscience
- NEUR 1740: The Diseased Brain: Mechanisms of Neurological and Psychiatric Disorders
- NEUR 1930/1940 Series: Seminars
- BIOL 0320: Vertebrate Embryology
- BIOL 0400: Biological Design: Structural Architecture of Organisms
- BIOL 0420: Principles of Ecology
- BIOL 0470: Genetics
- BIOL 0480: Evolutionary Biology
- BIOL 0280: Biochemistry
- BIOL 0500: Cell and Molecular Biology
- ENVS 0490: Environmental Science in a Changing World
- BIOL 0800: Principles of Physiology
- BIOL 1100: Cell Physiology and Biophysics
- BIOL 1190: Synaptic Transmission and Plasticity
Health Systems, Structure & Policy

This theme focuses on the structure, economics and social/public policies that characterize and inform health care in both developing and developed nations.

Sample Theme Courses
(Choose 4, but no more than 2 from same dept)

PHP 0320: Introduction to Public Health
PHP 1070: Burden of Disease in Developing Countries
PHP 0310: Health Care in the United States
PHP 1680I: Pathology to Power: Disability, Health & Community
PHP 1740: Principles of Health Behavior & Health Promotion Intervention
PHP 1520: Emergency Medicine Systems
PHP 2380: Health Communication
SOC 1550: Sociology of Medicine
SOC 1870D: Aging and Social policy
BIOL 0920A: Controversies in Medicine
ANTH 1310: International Health: Anthropological Perspectives
ECON 1360: Health Economics

Sample Biology Electives (related to the theme)
(Choose 2, including at least one at the 1000 level)

BIOL 0170: Biotechnology in Medicine
BIOL 0860: Diet and Chronic Disease
BIOL 1120: Biomaterials
BIOL 1160: Principles of Exercise Physiology
BIOL 1260: Pharmacology
BIOL 1290: Cancer Biology
BIOL 1300: Biomolecular Interactions: Health, Disease & Drug Design
BIOL 1820: Environmental Health and Disease
NEUR 1670: Neuropharmacology and Synaptic Transmission

Women's/Children's Health

This theme focuses on the social, behavioral and biological issues of relevance to the health and well-being of women and/or children from infancy to adolescence.

Sample Theme Courses
(Choose 4, but no more than 2 from same dept)

GNSS 1960B: Health and Healing in American History
GNSS 1960C: Gender, Sexuality and Science
GNSS 0090C: Reproductive Health
EDUC 0800: Human Development
EDUC 1430: Psychology of Race, Class and Gender
EDUC 1260: Emotion, Cognition and Education
EDUC 1270: Adolescent Psychology
CLPS 0600: Child Development
CLPS 0610: Children’s Thinking
CLPS 0701: Personality
CLPS 1110: Behavior Modification
ANTH 0302: Gender and Globalization
ANTH 0300: Culture and Health
SCSO 1550D: Biomedicalization
SCSO 1000: Introduction to Science and Society

Sample Biology Electives (related to the theme)
(Choose 2, including at least one at the 1000 level)

BIOL 0320: Vertebrate Embryology
BIOL 0530: Principles of Immunology
BIOL 0800: Principles of Physiology
BIOL 0860: Diet and Chronic Disease
BIOL 1160: Principles of Exercise Physiology
BIOL 1290: Cancer Biology
BIOL 1310: Analysis of Development
BIOL 1330: Biology of Reproduction
BIOL 1550: Biology of Emerging Microbial Diseases
BIOL 1560: Virology
# Environmental Health

Environmental Health is concerned with the biological, chemical and physical factors that reduce the quality and length of life for humans. Environmental factors that can influence health and well-being are diverse and far reaching, and can include: exposure to toxins in the air, water, soil, and food; the built environment; natural disaster and effects of climate change; changes to biological diversity that facilitate disease spread, etc.

### Sample Theme Courses

(Choose 4, but no more than 2 from same dept)

- **GEOL** 0030: Climate and Climate Change
- **GEOL** 1320: Intro to GIS for Environmental Applications
- **GEOL** 1370: Environmental Geochemistry
- **PLCY** 2555: Environmental Policy, From the Ground Up
- **ENVS** 0110: Humans, Nature and the Environment
- **ENVS** 0490: Environmental Science in a Changing World
- **ENVS** 1355: Environmental Issues in Development Economics
- **ENVS** 0130: The Engineer’s Burden: Why Changing the World Is Difficult

### Sample Biology Electives (related to the theme)

(Choose 2, including at least one at the 1000 level)

- **BIOL** 0210: Diversity of Life
- **BIOL** 0475: Conservation Medicine
- **BIOL** 0485: Conservation Biology
- **BIOL** 1485: Climate Change, Health and Ecology
- **BIOL** 0415: Microbes in the Environment
- **BIOL** 1820: Environmental Health and Disease
- **ENVS** 0130: The Engineer’s Burden: Why Changing the World Is Difficult

# Global/International Health

Global Health is the study, research and application of practices that prioritize health equity for all people worldwide. Global Health draws on many disciplines within and beyond the health sciences including sociology, anthropology, international relations, and economics. A thematic focus in Global Health can address emerging diseases, vaccine development and delivery, economic disparity, and the social factors that impact the diagnosis, prevention, surveillance and treatment of disease.

### Sample Theme Courses

(Choose 4, but no more than 2 from same dept)

- **GEOL** 0030: Climate and Climate Change
- **GEOL** 1320: Intro to GIS for Environmental Applications
- **GEOL** 1370: Environmental Geochemistry
- **ENVS** 0110: Humans, Nature and the Environment
- **ENVS** 0490: Environmental Science in a Changing World
- **ENVS** 1355: Environmental Issues in Development Economics
- **ENVS** 0130: The Engineer’s Burden: Why Changing the World Is Difficult
- **PHP** 1070: Burden of Disease
- **ANTH** 0110: Anthropology and Global Social Problems
- **ANTH** 0300: Culture and Health
- **ANTH** 1020: AIDS in Global Perspective
- **ANTH** 1255: Anthropology of Disasters
- **SOC** 1620: Globalization and Social Conflict

### Sample Biology Electives (related to the theme)

(Choose 2, including at least one at the 1000 level)

- **Biol** 0475: Conservation Medicine
- **Biol** 0860: Diet and Chronic Disease
- **Biol** 1485: Climate Change, Health and Ecology
- **Biol** 1550: Biology of Emerging Microbial Diseases
- **Biol** 1600: Development of Vaccines to Infectious Diseases
- **Biol** 1820: Environmental Health and Disease
## Social Context of Health & Disease

In this interdisciplinary subfocus, students can pursue scholarly approaches that examine the social, cultural, and historical factors that shape human understandings of health and disease. Includes Race and Ethnic Disparities in Disease

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<tr>
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<td>GNSS 090C</td>
<td>Reproductive Health</td>
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<tr>
<td>HIST 1180</td>
<td>The Rise of the Scientific Worldview</td>
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<td>HIST 1190</td>
<td>19th Century Roots of Modern Medicine</td>
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<td>HIST 1490</td>
<td>History of Medicine I: Medical Traditions in the old World Before 1700</td>
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<tr>
<td>HIST 1491</td>
<td>The Development of Scientific Medicine in Europe and the World</td>
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<td>HIST 1971T</td>
<td>Knowing &amp; Believing: Galileo to Darwin</td>
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<td>HIST 1978C</td>
<td>Health and Healing in the Colonial and Post-Colonial Africa</td>
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<td>PHP 1070</td>
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<td>BIOL 1920A</td>
<td>Imperialism and Public Health</td>
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<td>BIOL 1920B</td>
<td>Health Inequality in Historical Perspective</td>
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<td>BIOL 1920C</td>
<td>Social Contexts of Disease</td>
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<td>BIOL 1920D</td>
<td>Race, Difference and Biomedicine: Historical Considerations</td>
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<td>CLPS 0701</td>
<td>Personality</td>
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<td>SCSO 1550D</td>
<td>Biomedicalization: The Body as a Social Problem</td>
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