The Global Health Minor
Available to all Cornell undergraduates except for GPHS Majors

The Global Health minor provides students with basic knowledge about global and public health as well as the necessary skills and experience to begin to build their own unique career path in global and public health. It is available to all Cornell undergraduates in all Colleges and majors except GPHS majors. The minor is designed to achieve three educational objectives:

1) to learn more about the problems of global and public health in a classroom setting
2) to experience the issues in global and public health first-hand in a field setting
3) to gain exposure to various careers in global and public health from a diverse spectrum of graduate and medical students and faculty who focus on global and public health.

For more information, see the Global Health minor website and contact:

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Requirements of the Global Health minor

To successfully complete the Undergraduate Minor in Global Health, students must enroll in two (2) Core Courses and three (3) Elective Courses for a total of fifteen (15) credits. Additionally, students are required to complete an 8-week international Experiential Learning Opportunity (ELO) in a resource-limited environment. These requirements must be as follows:

1. Take the first required core course, NS 2600 Introduction to Global Health (F, 3 cr), to gain a basic understanding of global health and to prepare you for additional coursework and the ELO. NS 2600 Introduction to Global Health must be completed prior to completing the ELO.
2. Begin to complete elective coursework (described further below). It is recommended (but not required) to begin Elective Coursework prior to completing NS 4600 Explorations in Global and Public Health.
3. Meet with the Global Health Program Director or Fellow to discuss your intended ELO.
   a. If you apply and are accepted to participate in a Global Health Summer Program, you are required to enroll in NS 4620: Global Service Learning Pre-Departure Seminar (1-2 cr) during the Spring semester prior to the Field Experience.
   b. If you elect to participate in an Independent ELO, you are required to attend one Health & Safety Seminar, one Ethics, Culture & Diversity Seminar, and one NS 4600 Preparatory Seminar the Spring semester prior to the Field Experience.
4. Complete an 8-week (minimum) Experiential Learning Opportunity in which you live and work abroad on a health-related placement in a resource-limited setting.
5. Take the second required Core Course, NS 4600 Explorations in Global and Public Health (F, 3 cr). This course must be taken the Fall semester immediately following the completion of your ELO (junior or senior year).

Elective Coursework

Students are required to take and successfully complete the three Elective Courses. These courses must be distributed across three (3) of the five (5) Elective Course categories:

I. Biomedical & Epidemiological Approaches to Global Health
II. Social & Ethical Approaches to Global Health
III. Political, Economic, & Food Systems Approaches to Global Health
IV. Health Systems & Programmatic Approaches to Global Health
V. Area-Specific Studies (Petition Only)
A description of each of these categories and the courses in each category is below. The most updated, complete list of elective options can be found on the [Global Health minor website](#).

I. Biomedical & Epidemiological Approaches to Global Health

Includes courses encompassing a “hard science” approach to the study of disease and epidemiology. Examines both communicable and parasitic vectors that commonly occur in resource-poor contexts as well as the nutritional and environmental factors that relate to increasingly prevalent non-communicable diseases.

**FALL**
- BIOMI 2500 Public Health Microbiology (Fall, 3 cr)
- BIOMI 2950 Biology of Infectious Disease: From Molecules to Ecosystems (Fall, 3 cr)
- BIOMI 3210 Human Microbes and Health (Fall, 3 cr)
- BIOMI / BIOMS 4090 Principles of Virology (Fall, 3 cr)
- BIOMI / BIOMS 4310 Medical Parasitology (Fall, 2 cr)
- BIOMS 4150 Essential Immunology (Fall, 3 cr)
- EN TOM 2100 Plagues and People (2-3 cr)
- NS 3060 Nutrition and Global Health (odd Fall, 3 cr)
- NS 3600 Epidemiology (Fall, 3 cr)
- NS 4410 Nutrition and Disease (Fall, 4 cr)
- PLBRG 4070 Nutritional Quality Improvement of Food Crops (Fall, 2 cr) *(previously BIOPL)*

**SPRING**
- BIOMI 2600 Microbiology of Human Contagious Diseases (Spring, 3 cr)
- BIOMI / BIOMS 4040 Pathogenic Bacteriology (Spring, 2-3 cr)
- BIOMS 4340 Cellular and Molecular Microbial Pathogenesis: The Host/Pathogen Interplay (odd Spring, 3 cr)
- BIOMS/VETMI 7190 Immunology of Infectious Diseases (Spring, 2 credits)
- FDSC 4220 Functional Foods and Dietary Supplements for Health (Spring, 2 cr)
- NS / PSYCH 3150 Obesity and the Regulation of Body Weight (alt even Spring/Summer, 3 cr)
- NS 4200 Diet and the Microbiome (Spring, 3 cr)

II. Social & Ethical Approaches to Global Health

Includes courses that examine cultural and social issues affecting the health of global populations and that form a foundation upon which students can build effective policies and frameworks tailored to a population. Courses in this category examine the health of macro- and micro-communities as well as the relationships among ethics, human rights, and health in different communities and contexts.

**FALL**
- AMST 2225 / DSOC 2220 Controversies About Inequality (Fall, 4 cr)
- ANTHR / ARKEO / BSOC 2245 Health and Disease in the Ancient World (Fall, 3 cr)
- ANTHR / FGSS / LGBT 2421 Worlding Sex and Gender (Fall, 3 cr)
- BSOC / STS 2051 Ethical Issues in Health and Medicine (Fall, 4 cr)
- BSOC / STS 3011 Life Sciences and Society (Fall, 4 cr)
- CRP 3011 Ethics, Development, and Globalization (alt Fall/Spring)
- DSOC 2010 / SOC 2202 Population Dynamics (Fall, 3 cr)
- DSOC 2200 Sociology of Health of Ethnic Minorities (Fall, 3 cr)
- DSOC 4230 Gender and Health: Concepts, Data, Theories and Evidence
- EDUC 2610 The Intergroup Dialogue Project
- HD / SOC 3570 Social Inequalities in Physical and Mental Health (Fall, 3 cr)
- HD / SOC 4570 Health and Social Behavior (Fall, 3 cr)
- NS 2450 Social Science Perspective on Food and Nutrition (Fall, 3 cr)
- NS 3610 Hot Topics in Global and Public Health (Fall, 1 cr)
- NS 4420 Implementation of Nutrition Care (Fall, 3 cr)
- PAM 3180 Health Disparities (Fall, 3 cr)
- PAM 3280 Fundamentals of Population Health (Fall/Spring, 3 cr)
- STS 3111 Sociology of Medicine (Fall, 4 cr)
- STS / HIST 4751 Science, Race, and Colonialism (Fall/Spring, 4 cr)
SPRING
ANTHR / BSOC 2468 / STS 2468 Medicine, Culture and Society (Spring, 3 cr)
ANTHR 3465 / BSOC / STS 3460 Anthropology of the Body (Spring, 4 cr)
ANTHR 4041 / FGSS / STS / BSOC 4841 What is (an) Epidemic? (Infectious Diseases in
Historical, Social, and Political Perspective) (Fall, 4 cr)
ANTHR / ASRC 4682 Healing and Medicine in Africa (Spring, 4 cr)
ASRC 4602 / STS 3460 Women and Gender Issues in Africa (Spring, 4 cr)
BSOC 2061 Ethics and the Environment
BSOC 2201 Society and Natural Resources
CRP 3011 Ethics, Development, and Globalization (alt Fall/Spring)
DSOC 3700 Comparative Social Inequalities
DSOC 4380 Population and Development (Spring, 3 cr)
EDUC 2610 The Intergroup Dialogue Project
HD 2510 Social Gerontology: Aging and the Life Course
NS 4500 Public Health Nutrition (Spring, 3 cr)
PAM 3280 Fundamentals of Population Health (Fall/Spring, 3 cr)
PHIL 2450 Ethics and Healthcare (Spring, 4 cr)
PLHRT 2350 Food, Fiber, and Fulfillment: Plants and Human Well-Being (alt even Spring, 2 cr)
STS / HIST 4751 Science, Race, and Colonialism (Fall/Spring, 4 cr)

WINTER/SUMMER
AMST 3141 Prisons (Winter/Summer, 4 cr)

III. Political, Economic, & Food Systems Approaches to Global Health
Includes courses that examine local and global economic and political forces that influence the
healthcare system of a particular region and the development of that healthcare system. Courses in
this category include a wide range of subjects, from agriculture and food system regulations to
formulating balanced policy recommendations. This category focuses mainly on nutritional public
policy, from its basis in agro-economic theory to its specific application to developing political
systems.

FALL
AEM 1600 The Business of Modern Medicine (Fall, 1 cr)
AEM 2000 Contemporary Controversies in the Global Economy (Fall/Spring, 3 cr)
AEM 3385 Social Entrepreneurship Practicum: Anabel's Grocery (Fall/Spring, 3 cr)
ANSC / IARD 4000 Feeding the World: The Biological and Quantitative Analyses of Livestock and
Crop Systems (Fall, 4 cr)
DSOC 2030 Global Garbage (Fall, 3 cr)
DSOC 3400 Agriculture, Food, Sustainability and Social Justice (Fall, 3 cr)
ECON 3710 / PAM 4280 The Economics of Risky Health Behaviors (Fall, 4 cr)
ECON 4640 Economics of Agricultural Development (Fall, 3 cr)
ECON 6410 Health Economics I (Fall, 3 cr)
ECON 7711 Microeconomics of Development: Applications to Health, Nutrition, and Education
(Fall, 3 cr)
ENTOM / TOX 3070 Pesticides, the Environment, and Human Health (Fall, 2 cr)
FDSC / IARD 4020 Agriculture in Developing Nations I (even alt Fall, 3 cr)
IARD / DSOC 1110 Perspectives on International Agriculture and Rural Development (Fall, 3 cr)
IARD / PLSCS 4140 Tropical Cropping Systems: Biodiversity, Social & Environmental Impacts
(Fall, 4 cr)
NS / AEM 4450 Towards a Sustainable Global Food System: Food Policy for Developing
Countries (Fall, 3 cr)
NS 4570 / ECON 3910 Health, Poverty and Inequality: A Global Perspective (Fall, 3 cr)
PAM 2350 The U.S. Healthcare System (Fall, 3 cr)
PAM 3870 Economic Evaluations in Health Care (Fall, 3 cr)
PAM 4140 / ECON 3740 Global Health Economics and Policy (Fall, 3 cr)
PAM / ECON 4370 Economics of Health Care Markets (Fall, 3 cr)

SPRING
AEM 2000 Contemporary Controversies in the Global Economy (Fall/Spring, 3 cr)
AEM 3385 Social Entrepreneurship Practicum: Anabel's Grocery (Fall/Spring, 3 cr)
AEM 4310 Agricultural and Food Policy (Spring, 3 cr)
DSOC 2050 / SOC 2206 International Development (Spring, 3-4 cr)
DSOC 3020 Political Ecologies of Health (Spring, 3 cr)
EAS / COMS / ROMS 2021 Humans and Climate Change (Spring, 3 cr)
FDSC / IARD / NTRES 4800 Global Seminar: Building Sustainable Environments and Secure Food Systems for a Modern World (Spring, 3 cr)
FDSC / IARD 6020 International Agriculture in Developing Nations (Spring, 3 cr)
HIST 2791 International Humanitarianism (Spring, 4 cr)
ILRIC 3342 Workplace Health and Safety as a Human Right (Spring, 4 cr)
NS 4480 Economics of Food and Malnutrition (Spring, 3 cr)
PAM 3780 Sick Around the World? Comparing Healthcare Systems Around the World (Spring, 3 cr)

SUMMER
NS 4630 Global Health, Development, and Policy Issues in Tanzania (Summer, 4 cr)
NS 4631 Global Health Practice and Policy Research in Zambia (Summer, 4 cr)

IV. Health Systems & Programmatic Approaches to Global Health
Courses that include study of interventions, programs, and other methodologies, so as to provide students with the skills, tools and frameworks upon which to implement sustainable development. Courses in this category focus techniques for engineering infrastructures to that are effective in supporting public health initiatives.

FALL
AEM 4880 Global Food, Energy and Water Nexus: Engage the US, China, and India for Sustainability (Fall, 3-4 cr)
BEE / ENGRD 2510 Engineering for a Sustainable Society (Fall, 3 cr)
BME 4110 Science and Technology Approaches to Problems in Human Health (Fall, 3 cr)
CEE 2550 / 4550 AguaClara: Sustainable Water Supply Project (Fall/Spring, 3 cr)
CEE 4540 Sustainable Municipal Drinking Water Treatment (Fall, 3 cr)
DEA 2700 Healthy Places: Design, Planning and Public Health (Fall, 3 cr)
DEA 5005 Health and Healing Studio (Fall, 4 cr)
ENGRG 3400 Engineering in Reality (Fall/Spring, 1-3 credits) *
ILRHR 6605 / PADM 5410 Nonprofit Management and Finance (4 credits)
MAE 1900 Individual and Group Projects in Mechanical Engineering (Fall/Spring 1-4 cr) *
MAE 4900 Freshman and Nontechnical Projects in Mechanical Engineering (Fall/Spring 1-4 cr) *
NS 4030 Teaching Apprenticeship (1-3 cr, only for NS 2600, 4600, 4620, 4630 or 4631)
NS 4650 Leadership Development in Global and Public Health (Fall, 1 cr)
PADM 5449 Systems Thinking in Public Affairs (Fall, 3 cr)
PLBIO 3100 Medicinal Botany and Drug Discovery (Fall, 2 cr)

SPRING
BEE 3299 Sustainable Development (Spring/Summer, 3 cr)
BEE 4760 Solid Waste Engineering (Spring, 3 cr)
CEE 2550/4550 AguaClara: Sustainable Water Supply Project (Fall/Spring, 3 cr)
CEE 5970 Risk Analysis and Management (Spring, 3 cr)
ENGRG 3400 Engineering in Reality (Fall/Spring, 1-3 credits) *
ILRIC 3342 Workplace Health and Safety as a Human Right (Spring, 4 cr)
ILROB 4710 Social Science Research Methods (Spring, 4 cr)
MAE 1900 Individual and Group Projects in Mechanical Engineering (Fall/Spring 1-4 cr) *
MAE 4900 Freshman and Nontechnical Projects in Mechanical Engineering (Fall/Spring 1-4 cr) *
NS 4030 Teaching Apprenticeship (1-3 cr, only for NS 2600, 4600, 4620, 4630 or 4631)
STS / ANTHR / BSOC 4311 From Surgery to Simulation (Spring, 4 cr)

SUMMER
BEE 3299 Sustainable Development (Spring/Summer, 3 cr)
HE 4060 Practicing Global Public Health (Summer, 3 cr)
NS 4630 Global Health, Development, and Policy Issues in Tanzania (Summer, 4 cr)
NS 4631 Global Health Practice and Policy Research in Zambia (Summer, 4 cr)
* Students intending to use these courses towards completion of the Global Health minor must submit a petition describing the focus of their project team’s topic—which must be health-related—prior to taking the course.

V. Area-Specific Studies (Petition Only)
A variety of courses focusing on specific regions or populations in developing countries, so as to enable studies targeted to the context in which they complete their field experience. Includes regional anthropological, sociological and economic studies. Students are encouraged to study regional languages that may aid in implementation of health policies; however, language courses do not count towards the minor.

Please contact the Global and Public Health Fellow for an Elective Petition Form. All forms must be submitted prior to the completion of the course.

Experiential Learning Opportunity (ELO)

A critical element of the Global Health Minor is an approved eight-week (minimum) Experiential Learning Opportunity (ELO), in which students live and work abroad in a resource-poor setting. The ELO component encourages students to empirically deepen their understanding of global health while continuously living, learning, working and/or serving abroad in a resource-limited environment. For a minimum of 8 weeks, students are challenged to apply their classroom learning to the field setting and to deepen their understanding of the health problems that disproportionately affect the resource-poor.

An ELO is completed during a Fall, Spring, or Summer term in one of two general ways:

A. Cornell Global Health Summer Programs
- Mysore, India
- Moshi, Tanzania
- Lusaka, Zambia
  *Required Pre-Departure Preparation: NS 4620: GSL Pre-Departure Seminar (S, 1-2 cr) OR ILRIC 4260: GSL Pre-Departure Seminar (India) (S, 2 cr)*

B. Independent ELOs
- Full-time academic study abroad program
- Summer internship
- Volunteer service project
- Work/research experience
  *Required Pre-Departure Preparation: one Health & Safety Seminar AND one Ethics, Culture & Diversity Seminar AND NS 4600 Preparatory Assignments*

Specific opportunities within (A) the Cornell Global Health Summer Programs and among (B) Independent ELOs are described in further detail below.

A. Cornell Global Health Summer Programs

Mysore, India | Swami Vivekananda Youth Movement *(offered in collaboration with the School of Industrial & Labor Relations)*
*Course Period (2 weeks): Vivekananda Institute for Indian Studies*
*Service Project (6 weeks): Swami Vivekananda Youth Movement*
*Living Arrangements: SVYM hostel or guesthouse, depending on site*

Moshi, Tanzania | Kilimanjaro Christian Medical University-College
*Policy Case Study (4 weeks, 4 credits): Kilimanjaro Christian Medical University-College*
*NS 4630: Global Health and Policy Issues in Tanzania (counts as an Elective Course)*
*Service Project (4 weeks): Local NGO, government agency, rural clinic or home for children with disabilities*
*Living Arrangements: Homestay with local family*

Lusaka, Zambia | Southern African Institute for Policy & Research
*Offered in collaboration with the School of Industrial & Labor Relations*
*Concurrent Policy Case Study: Southern African Institute for Policy & Research*
Service Project: University of Zambia’s University Teaching Hospital
Living Arrangements: Homestay with local family (4 weeks), guesthouse (4 weeks)

B. Independent Experiential Learning Opportunities (By Petition Only)
An Independent ELO (i.e. research opportunities, study abroad, etc.) is an eight-week field experience that counts towards completion of the Global Health Minor, but is not directly affiliated with the Cornell Global Health Program. Students are required to complete and submit an Independent ELO Proposal to the Global Health Program Director or Fellow at least eight weeks prior to departure.
GLOBAL HEALTH MINOR: COMPLETION SUMMARY

STUDENT INFORMATION
NAME: 

STUDENT ID NUMBER: 

COLLEGE: 

MAJOR: 

GRADUATION DATE (FALL/SPRING + YEAR): 

MINOR REQUIREMENTS:
NS 2600: INTRODUCTION TO GLOBAL HEALTH  
Semester ________ Year ________

NS 4600: EXPLORATIONS IN GLOBAL AND PUBLIC HEALTH  
Semester ________ Year ________

THREE APPROVED ELECTIVE COURSES ACROSS THREE DIFFERENT CATEGORIES (Minimum of 9 credits combined)

Category I. Biomedical & Epidemiological Approaches
Category II. Social & Ethical Approaches
Category III. Political, Economic & Food System Approaches
Category IV. Health Systems & Programmatic Approaches
Category V. Area-Specific Studies (Petition-Only)

Course Title and Number: ________________________________
Category ____________ Credits ______
Semester ________ Year ________
If petitioned: Was this course approved? (Must provide date with month/year if so) ______

Course Title and Number: ________________________________
Category ____________ Credits ______
Semester ________ Year ________
If petitioned: Was this course approved? (Must provide date with month/year if so) ______

Course Title and Number: ________________________________
Category ____________ Credits ______
Semester ________ Year ________
If petitioned: Was this course approved? (Must provide date with month/year if so) ______

APPROVED FIELD EXPERIENCE

□ YES  □ NO  Location ____________________________  Term & Year ________________
Organization ________________________________

What are your intended plans for after graduation?
________________________________________________________________________________________
________________________________________________________________________________________
_____________________________________________________________________________

Date of Global Health Program Approval: ____________________________
Signature of Program Coordinator: ________________________________