

GLOBES Certificate Sample Course Offerings

This list of coursework is not comprehensive, students may suggest courses that are not on this list as long as they fit the intent of GLOBES.

GLOBES Core Courses

Strongly Recommended (team taught, not offered every year):

BIOS 60524 Global Change and Civilization (new title 2014, formerly Humans and the Global Environment, J. Hellmann/M. Schurr)

BIOS 60522 Humans, Genes & Environment (H. Hollocher/A Fuentes)

CE 60355 Water, Disease, & Global Health (D. Severson/J.Shrouf)

GLOBES Seminars

Required 1-credit Seminar:

BIOS 60581-02 GLOBES Seminar on Interdisciplinary Research

May be substituted for above GLOBES seminar with approval of director:

BIOS 60601-01 Global Health Colloquium

CE 63400-01 Environmental Fluid Dynamics Seminar

BIOS 60202 Global Bioethics Seminar

GLOBES Electives

Please Note: 1) *Non-major students should contact the course instructor for permission to enroll in elective coursework. Pre-requisites may be required, e.g., preparation in advanced mathematics for engineering courses.*

2) *With the approval of the Program Director, students may earn up to 3 credits toward coursework requirements through independent study under a faculty advisor outside of the primary field of study*

Biological Sciences

BIOS 50544 Environmental Justice

BIOS 50545 Biomedical Ethics

BIOS 60310 Biogeochemistry and Ecosystem Ecology

BIOS 60320 Aquatic Conservation: Global Freshwaters, Science, and Policy

BIOS 60412 Introduction to Systems Biology

BIOS 60507 Genomics and Bioinformatics

BIOS 60508 Population Genetics

BIOS 60525 Community Ecology

BIOS 60527 Stream Ecology

BIOS 60529 Population & Disease Ecology

BIOS 60530 Immunobiology of Infectious Disease

BIOS 60552 Topics in Ecology

Policy of Biological Invasions Seminar/Conservation Strategies for Global Climate Change/Ecological Forecasting

BIOS 60563 Modern Infectious Disease Epidemiology

BIOS 60569 Epidemiology and Ecology of Infectious Diseases
BIOS 60574 Topics in Evolutionary & Systematic Biology
Ecological Genetics and Genomics
GH 60545 BioEthics

Engineering

CE 60330 Environmental Biotechnology
CBE 60572 Modeling - Ecology and Environment
CSE 60497 Data Mining
CSE 60884 Complex Networks
CSE 60732 C/C++ Programming
ENVG 60810 Geographic Information Systems (GIS) Course (4 credit lecture and lab)

Other Departments

ANTH 65588 Archaeology Field School
BAUG 30505 Social Entrepreneurship/Microventuring I (Gigot Center)
ECOE 70311 Environmental Economics
HIST 93984 Darwinian Revolution
HPS 93632 Environmental History
HPS 93825 Philosophy of Science and Public Policy
HPS 93211 History and Philosophy of Health and Environment
LAW 70348 Biodiversity and the Law
LAW 70349 Environmental Law
LAW 73328 Climate Change Law
MGT 76030 Business on the Frontlines (approved as a 4-credit course plus 1-credit module)
PSY 60108 Bayesian Statistics
SC 40500 Scientific Entrepreneurship
SOC 63591 International and Global Sociology
THEO 60635 Environmental Ethics (crosslisted with HPS)

GLOBES Modules (short course, variable credit training modules)

BIOS 60521 GLOBES Module topics will change each academic year. Possible topics follow:

- Communications Training: Media Focus
- Communications Training: Policy Focus
- Communications/Leadership Training: Washington DC
- Scientific Integrity
- Team Teaching Practicum
- Economics of the Environment
- Practicum in Environmental Ecology (UNDERC)

Approved courses that can count toward a module credit with approval of program director:

- Kaneb Center Teaching Certificate
- Science Policy Ethics Course (DC Trip Immersion) College of Science & Center for Social Concerns (SC33902)
- Monitoring Technology at ND LEEF (proposed, new)