Appendix B.2 GLOBES Certificate Example Curricula

The following programs of study represent potential pathways for students with a particular area of focus. There are other pathways possible. Students may use these examples as guides in consultation with their advisors.

Focus on Environmental Policy
1) Core course: Global Change and Civilization
2) Electives: choose one or more outside of primary discipline
   - BIOS 60320 Aquatic Conservation: Global Freshwaters, Science, and Policy
   - BIOS 50544 Environmental Justice
   - LAW 70349 Environmental Law
   - LAW 70348 Biodiversity and the Law
   - HPS 93632 Environmental History
   - HPS 93825 Philosophy of Science and Public Policy
   - THEO 60635 Environmental Ethics
3) GLOBES Interdisciplinary Seminar
   History & Philosophy of Science Colloquium
4) GLOBES Modules
   - Introduction to Research Communication Skills (BIOS 60521)
   - Advanced Policy and Communication: Wash DC immersive trip (SC 33902)
   - Scientific Integrity (BIOS 60521)

Focus on Ecology
1) Core course: Global Change and Civilization or Humans, Genes, and the Environment
2) Electives: choose one or more outside of primary discipline
   - BIOS 60574 Topics in Evolution & Systematic Biology
   - BIOS 60529 Theoretical Population Ecology
   - BIOS 60525 Community Ecology
   - BIOS 60527 Stream Ecology
3) GLOBES Interdisciplinary Seminar (2)
4) GLOBES Modules
   - Introduction to Research Communication Skills (BIOS 60521)
   - Practicum in Environmental Ecology (UNDERC or ND LEEF)
   - Scientific Integrity (BIOS 60521)

Focus on Global Health and the Environment
1) Core course: Humans, Genes and the Environment or Water, Disease and Society
2) Electives: choose one or more outside of primary discipline
   - BIOS 60530 Immunobiology of Infectious Disease
   - BIOS 60563 Modern Infectious Disease Epidemiology
   - GH 60545 BioEthics
   - MGT 76030 Business on the Frontlines (BOTFL)
3) GLOBES Interdisciplinary Seminar (BIOS 60581)
   Global Health Colloquium BIOS 60601 or Global Bioethics Seminar (BIOS 60202)
4) GLOBES Modules
Focus on Ecological Forecasting
1) Core course: Global Change and Civilization
2) Electives: choose one or more outside of primary discipline
   - ECOE 70311 Environmental Economics
   - CBE 60572 Modeling – Ecology and Environment
   - BIOS 60320 Aquatic Conservation: Global Freshwaters, Science, and Policy
3) GLOBES Interdisciplinary Seminar (2)
4) GLOBES Modules
   - Introduction to Research Communication Skills (BIOS 60521)
   - Advanced Policy and Communication: Wash DC immersive trip
   - Scientific Integrity (BIOS 60521)

Focus on International Development and Global Change
1) Core course: Global Change and Civilization or
   - Humans, Genes, and the Environment or
   - Water, Disease and Society
2) Electives: choose one or more outside of primary discipline
   - SOC 63591 International and Global Sociology
   - LAW 73328 Climate Change Law
   - MGT 76030 Business on the Frontlines1 (BOTFL)
   - BAUG 30505 Social Entrepreneurship/Microventuring
3) GLOBES Interdisciplinary Seminar (2)
4) GLOBES Modules
   - Introduction to Research Communication Skills (BIOS 60521)
   - Advanced Policy and Communication: Wash DC immersive trip
   - BOTFL Immersion Trip

Focus on Freshwater Sensor Networks & Ecological Modeling
1) Core course: Global Change and Civilization
2) Electives: choose one or more outside of primary discipline
   - EE 40453 Communication Systems
   - EE 40471 Digital Signal Processing
   - CBE 60572 Modeling – Ecology and Environment
   - BIOS 60412 Introduction to Systems Biology
3) GLOBES Interdisciplinary Seminar
   - Environmental Fluid Dynamics Seminar (CE 63400)
4) GLOBES Modules
   - Introduction to Research Communication Skills (BIOS 60521)
   - Monitoring Technology at ND LEEF (proposed, new)
   - Scientific Integrity