GLOBAL DISEASE BIOLOGY (GDB)

College of Agricultural & Environmental Sciences

GDB 090 — Introduction to Global Disease Biology (1 unit)

Course Description: Introduction to the Global Disease Biology major, research and internship opportunities, and potential career paths in human, animal, and plant health. Communication, ethics and the nature of science.

Prerequisite(s): Open to GDB majors only, or consent of instructor.

Learning Activities: Seminar 1 hour(s).

Grade Mode: Pass/No Pass only.

GDB 101 — Epidemiology (4 units)

Course Description: Principles and practice of epidemiology as applied to human, animal, and plant populations and the environment in which these populations co-exist. Quantitative analysis of both infectious and non-infectious disease. Inter-dependence between epidemiological analysis, decision-making and policy formulation will be highlighted.

Prerequisite(s): SAS 013; BIS 002A; BIS 002B; BIS 002C; ((STA 013 or STA 013Y) or (STA 100 or PLS 120)).

Learning Activities: Lecture 2 hour(s), Laboratory 3 hour(s), Discussion 1 hour(s).

Grade Mode: Pass One restricted to Global Disease Biology majors only.

General Education: Science & Engineering (SE); Quantitative Literacy (QL).

GDB 106 — Geographies of Health (4 units)

Course Description: Multiple geographies of health, including how both physical environmental systems and human social, economic & political systems impact health and disease. Global, comparative geographical approach emphasizes the benefits of integrated multidisciplinary analyses for planetary health success.

Prerequisite(s): Upper division standing.

Learning Activities: Lecture/Discussion 3 hour(s), Project.

Grade Mode: Letter.

General Education: Arts & Humanities (AH) or Social Sciences (SS); World Cultures (WC).

GDB 107 — Global Disease Biology Seminar (3 units)

This course version is effective from, and including: Winter Quarter 2024.

Course Description: Seminar leading to development of the research proposal and academic plan for the Global Disease Biology major.

Prerequisite(s): GDB 090; SAS 013.

Learning Activities: Seminar 2 hour(s), Discussion 1 hour(s).

Grade Mode: Letter.

GDB 187 — Global Disease Biology Seminar (3 units)

Course Description: Seminar leading to development of the research proposal and academic plan for the Global Disease Biology major.

Prerequisite(s): GDB 090; SAS 013.

Learning Activities: Seminar 2 hour(s), Discussion 1 hour(s).

Grade Mode: Letter.

GDB 189 — Global Disease Biology Senior Research (3 units)

Course Description: Capstone research experience for the Global Disease Biology major. Project may be experimental, library research, or some other creative activity.

Prerequisite(s): GDB 090; GDB 189D (can be concurrent); SAS 013; GBD 189D required concurrently the first time GBD 189 is taken.

Learning Activities: Independent Study 3 hour(s).

Repeat Credit: May be repeated 1 time(s) for student research conducted over two quarters; second quarter used to finish writing the research paper.

Grade Mode: Pass/No Pass only.

GDB 189D — Global Disease Biology Research Discussion (1 unit)

Course Description: Prevent or solve problems during the students’ research activity. Independent advising and assistance on research proposal.

Prerequisite(s): GDB 090; GDB 187; SAS 013; GDB 189; or consent of instructor.

Learning Activities: Discussion 1 hour(s).

Grade Mode: Pass/No Pass only.