INTEGRATED BIOMEDICAL GRADUATE STUDIES (IBGS)

Courses

IBGS 501. Biomedical Communication and Integrity. 2 Units.
Improves students' scientific communication skills, as well as increases their awareness of proper ethical conduct in biomedical research. Teaches appropriate techniques for written and oral presentations; as well as ethics and standard practices for record keeping, data analysis, and authorship.

IBGS 502. Biomedical Information and Statistics. 2 Units.
Introduces students to the basics of statistical analysis in a relevant biomedical setting. Additionally, provides practical information on the use of database systems and software tools for data management and analysis.

IBGS 503. Biomedical Grant Writing. 2 Units.
Encompasses the process of writing a biomedical research grant from medical problem through final draft of an NIH-style research proposal. With guidance from the instructor, students design and write a research proposal that is ready for submission to the NIH. Familiarizes students with potential funding sources, the process of formulating a fundable research plan, and communicating that plan in an appropriate format.

IBGS 511. Cellular Mechanisms and Integrated Systems I. 6 Units.
The first quarter of a two-quarter sequence designed to give first-year graduate students an exposure to major core concepts of molecular and cellular biology.

IBGS 512. Cellular Mechanisms and Integrated Systems II. 6 Units.
The second quarter of a two-quarter sequence designed to give first-year graduate students an exposure to major core concepts of molecular and cellular biology.

IBGS 513. Cellular Mechanisms and Integrated Systems III. 8 Units.
The third quarter of a three-quarter sequence designed to give first-year graduate students a broad, integrated exposure to the molecular and cellular basis of modern human biology. Focuses on how cells and molecules work together to create functioning organs, ending with a treatment of genetic, lifestyle, and microbial contributions to human pathology. Prerequisite: IBGS 511, IBGS 512.

IBGS 522. Cellular Mechanisms and Integrated Systems II Journal Club. 2 Units.
A component of IBGS, taught in a journal-club format. Presents and discusses recent literature related to IBGS 512.

IBGS 523. Cellular Mechanisms and Integrated Systems III Journal Club. 2 Units.
Employs a journal-club format that explores contemporary topics of program-specific interest to class participants.

IBGS 604. Introduction to Integrative Biology Presentation Seminar. 1 Unit.
Students attend a series of research descriptions presented by graduate students.

IBGS 605. Integrative Biology Presentation Seminar. 1 Unit.
A seminar course that gives graduate students in the basic sciences an opportunity to practice oral presentations on current research or current literature covering the various aspects of regulatory and integrative biology as applied to molecules, cells, tissues, organs, systems, and microbes. Students and faculty participate in a discussion and critical evaluation of the presentation.

IBGS 607. Integrated Biomedical Graduate Studies Seminar. 1 Unit.
Weekly seminars presented by invited speakers in the biomedical sciences disciplines. Students required to register for course every quarter throughout their training.

IBGS 696. Research Rotations. 1 Unit.
Incorporates the research rotations to be completed before assignment to a dissertation or thesis laboratory.