INTERDISCIPLINARY GRADUATE PROGRAM IN BIOMEDICAL SCIENCES (IGPBS - COURSES ARE IPBS)

IPBS 801 FUNDAMENTALS OF BIOMOLECULES 3 Credit Hours
Introduction to concepts in the biochemistry of macromolecules, including the structure and function of proteins and nucleic acids, sugars and lipids. Basic material related to acid-base, buffers, intermolecular interactions, and enzymology lead to discussion of synthesis, folding, and degradation of proteins. Basic information on the structure of DNA and RNA leads to discussion of the mechanisms of replication, repair, recombination, restriction, transcription-translation and regulation of chromatin structure/gene expression.
Prerequisite: all IGPBS students
Typically Offered: FALL

IPBS 802 MOLECULAR CELL BIOLOGY 2 Credit Hours
Introduction to fundamental concepts of cell structure, cell division, and death, and the mechanisms of cellular transport/trafficking, communication, and adhesion.
Typically Offered: FALL

IPBS 803 FUNDAMENTALS OF RECEPTORS & CELL SIGNALING 2 Credit Hours
Introduction to fundamental concepts of how receptors regulate cell function through signal transduction networks.
Typically Offered: FALL

IPBS 804 BIOSCIENCE ENTREPRENEURSHIP 2 Credit Hours
To move from discovery to commercialized applications, the entrepreneur must have a wide variety of skills to address a variety of economic, legal and scientific requirements. The purpose of this course is to define these essential skills and provide a background of the requirements that are necessary to commercialize new inventions.
Typically Offered: FALL

IPBS 850 CRITICAL ANALYSIS OF THE SCIENTIFIC LITERATURE 1 Credit Hour
To provide a course that will help incoming IGPBS students who have not yet committed to a doctoral program to develop a strong foundation in how to read and critically analyze the primary literature.
Typically Offered: FALL

IPBS 896 RSCH OTHER THAN THESIS 1-9 Credit Hours
Student research that is clearly distinct from ongoing or planned thesis/dissertation work, or research/lab rotations preformed prior to selecting a permanent advisor or supervisor.
Prerequisite: must be IGPBS student
Typically Offered: FALL/SP/SU

IPBS 970 SEMINAR 1 Credit Hour
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Typically Offered: FALL/SP/SU