IBS - INTERDISCIPLINARY BIOMEDICAL SCIENCES

IBS 7015 Interdisciplinary Cell and Molecular Biology Cr. 6
The fundamental biochemistry, molecular biology, and function of eukaryotic cells. Includes study of the structure and purpose of the basic components of eukaryotic cells; how eukaryotic cells obtain and utilize energy, process information, and replicate or self-destruct; and examples of how specific cell types contribute to multicellular biological processes and systems in normal and disease states. Offered Fall.
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the School of Medicine; enrollment limited to students in a Doctor of Philosophy degree.

IBS 7030 Functional Genomics and Systems Biology Cr. 2
Exploration of several new technologies for determining gene function on a genome-wide scale and for integrating information into a systems-level view of biological processes. Offered Winter.
Prerequisite: IBS 7015 with a minimum grade of C or MGG 7010 with a minimum grade of C
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the School of Medicine; enrollment limited to students in a Doctor of Philosophy degree.
Equivalent: MGG 7030

IBS 7050 Biomedical Neurobiology Cr. 2
Sensory, motor, and integration of nervous systems, including anatomic and cellular organization, systemic and cellular-molecular functions, and diseases. Offered Winter.
Prerequisites: IBS 7015 with a minimum grade of C
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the School of Medicine; enrollment limited to students in a Doctor of Philosophy degree.

IBS 7090 Biomedical Immunology Cr. 2
Cellular-molecular and systemic functions, and diseases of the immune system. Offered Winter.
Prerequisites: IBS 7015 with a minimum grade of C
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the School of Medicine; enrollment limited to students in a Doctor of Philosophy degree.

IBS 7100 Biomedical Neuropharmacology Cr. 2
General principles, including cellular and molecular basis of drug action with special emphasis on neuronal systems. Offered Winter.
Prerequisites: IBS 7015 with a minimum grade of C
Restriction(s): Enrollment is limited to Graduate or Medical level students; enrollment limited to students in the School of Medicine.

IBS 7110 Introduction to the Business of Biotechnology Cr. 3
Translation of biomedical innovation from bench to bedside, with focus on interplay between healthcare needs, regulatory agencies, and commercialization pathways. Offered Winter.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: BMS 7100

IBS 7115 Special Topics in Biotechnology Commercialization Cr. 1
Designed to provide practical experience in defining the relationships between academic discovery science and business development, with a focus on best practices for presenting basic research-commercials products to external, interested individuals. Offered Winter.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: BMS 7115