

Interdisciplinary Biomedical Sciences (IBMS)

IBMS 6501 Med Molecular Cell Physio 3 Credits

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the MS-PHLG, MS-PHLG-SM or MS_PHLG-SM programs.

Enrollment is limited to Graduate level students.

IBMS 6502 Med Mol Biology Metabolism 2 Credits

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the MS-PHLG, MS-PHLG-SM or MS_PHLG-SM programs.

Enrollment is limited to Graduate level students.

IBMS 6503 Med Embryo Intro Anatom Sci 2 Credits

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the MD-GEMS, MS-PHLG, MS-PHLG-SM or MS_PHLG-SM programs.

Enrollment is limited to Graduate level students.

IBMS 6504 Med Intro to Pathology Pharm 2 Credits

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the MS-PHLG, MS-PHLG-SM or MS_PHLG-SM programs.

Enrollment is limited to Graduate level students.

IBMS 6506 Med Cardiovascular Biology 3 Credits

This medical course provides students with a comprehensive view of cardiovascular physiology, anatomy, histology, embryology, including hemodynamic function, and electrophysiology of the normal cardiovascular system, and in-depth study of the pathophysiology of cardiovascular diseases including cardiomyopathies, valvular heart disease, ischemic heart disease, vascular diseases, and congenital heart disease in addition to an understanding of basic respiratory pathophysiology and its application to patient care. This course combines, lectures with problem-solving workshops, clinical correlations, student-directed learning, gross anatomy non-cadaveric labs, and small group sessions. Prerequisites: for SMP and GEMS students only. Adam Myers, PhD and Marina Castilla, MD, Course Director

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the MD-GEMS or MS-PHLG programs.

Enrollment is limited to Graduate level students.

IBMS 6507 Med Respiratory Renal Bio 3 Credits

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the MD-GEMS or MS-PHLG programs.

Enrollment is limited to Graduate level students.

IBMS 6508 Med Gastrointestinal Biology 3 Credits

This medical course will help students identify how GI structure (Embryology, Microscopic Anatomy and Gross Anatomy) integrates with function (physiologic mechanisms of GI motility, digestion and absorption, and liver and pancreatic function). Students will describe the mechanisms contributing to absorption of nutrients into the body and apply their basic medical science knowledge to clinical problem-solving. This course combines lectures with problem-solving workshops, clinical correlations, student-directed learning, and gross anatomy non-cadaveric labs. Prerequisites: for SMP students and GEMS only. Susan Mulroney, PhD, Course Director

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the MD-GEMS-P or MS-PHLG programs.

Enrollment is limited to Graduate level students.

IBMS 6509 Med Endo Reproductive Bio 3 Credits

This medical course will educate students on the endocrine system including the hypothalamic-pituitary-adrenal axis and associated hormones, thyroid and parathyroid hormones, and reproductive hormones; hormonal signaling and physiologic actions. The cellular and anatomical components of reproduction and early development as well as hormone production, regulation and action will also be covered. The embryologic components include the development of the reproductive tract, development of gametes, fertilization, and formation of the germ layers. Students will also critically evaluate basic and clinical research in the field and work in groups to produce a literature review on a topic in reproduction. This course combines, lectures with problem-solving workshops, clinical correlations, student-directed learning, gross anatomy non-cadaveric labs, small group sessions, and a paper. Prerequisites: For SMP students only. Jennifer Whitney, PhD, and G. Ian Gallicano, PhD, Course Directors

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the MS-PHLG program.

Enrollment is limited to Graduate level students.