MB 6500 - Advanced Tumor Virology
Credit(s): 3 Credits
An advanced course dealing with the biological, biochemical, and physical properties of oncogenic DNA and RNA tumor viruses, their modes of interaction with cells, and the molecular events of host chromosomes. Lecture topics will include the role of viral and cellular oncogenes in cell transformation, tumorogenesis and normal growth control. The role of DNA tumor viruses and retroviruses, including human immunodeficiency virus (AIDS), as tools to investigate the mechanism of DNA replication, gene expression, and growth control in eukaryotic cells will be presented. Offered every other year.

MB 6650 - Basic Immunobiology
Credit(s): 0-3 Credits
A beginning graduate level course which deals with fundamental concepts in both molecular and cellular immunology. Topics include antigen recognition structures; antigen processing and the major histocompatibility (MHC) locus; lymphocyte activation; cytokines; T and B cell development; cell-cell interaction in the immune response; and host immune responses in autoimmunity and infection. Emphasis on experimental approaches and some review of current literature. Offered every other year.

MB 6750 - Immunology Journal Club
Credit(s): 2 Credits
An advanced topics literature survey. Current topics in the molecular aspects of antigen recognition, antigen presentation, cell-cell interactions in immune systems, and signal transduction in lymphocytes and macrophages. Offered every spring semester.

MB 6820 - Advanced Topics in Virology and Cell Biology
Credit(s): 1-3 Credits
This course is taught by one or more of the faculty in the program. Students meet with the instructor one to three times per week to discuss and analyze a research topic in virology or the relationship between viruses and their host cells. Material is taken from research papers published in leading research journals, with supporting information from graduate-level textbooks. Topics for the course are selected by the faculty of the molecular microbiology and immunology program. (Offered every other year.)

MB 6900 - Microbiology Journal Club
Credit(s): 0-1 Credits (Repeatable for credit)
Attendance and participation required of all graduate students, every semester that they are in the program. Students, postdoctoral trainees, and Faculty report on important research which has recently been published in the biomedical literature. Each student presents at least once per semester.

MB 6920 - Microbiology Colloquium
Credit(s): 0-1 Credits (Repeatable for credit)
Advanced doctoral students meet with instructor to analyze and discuss a specific research. Reference materials are articles/reports from the current research literature.

MB 6950 - Special Study for Exams
Credit(s): 0 Credits (Repeatable for credit)

MB 6970 - Research Topics
Credit(s): 1 or 2 Credits
This is an advanced topics course taught by any one of the Faculty in the Department. It is designed for a class of several students who meet with the instructor once a week to discuss and analyze a research topic. Material is taken from current research papers published in leading research journals. The topic for the course is announced in the Schedule of Classes.
MB 6980 - Graduate Reading Course
Credit(s): 1-3 Credits (Repeatable for credit)

MB 6990 - Dissertation Research
Credit(s): 0-6 Credits (Repeatable for credit)