This course entails a discussion of research publications focused on topics of current importance in molecular and cellular immunology. These may include recombination in the Ig and TCR loci; signal transduction coupled to antigen and cytokine receptors; molecular aspects of intracellular pathways in antigen processing; ligand-receptor interactions in cell-cell communications; chemokine and cytokine networks and infection; role of T cell subsets in host defense; and immune mechanisms in pathogenesis of infectious disease. (Offered every semester)

MB 6400 - Biological Safety Microbiology for the Research Scientist Credit(s): 3 Credits
This course will provide an overview of the field of biological safety microbiology and its application to the control of biohazards in a wide variety of settings for students at all levels who are interested in the epidemiology of microbial diseases. Students will review biohazards associated with occupational laboratory acquired infections, and examine select case studies to identify critical biosafety mishaps. The role of public opinion and media will be discussed as a continuous thread throughout the course. The course will teach participants how to perform a comprehensive qualitative risk assessment for biohazards and learn how to employ the control strategies to appropriately manage these risks. Course concepts can be applied to the control of biohazards, along with emphasizing protective measures when addressing incidents involving biohazards. In addition, coverage of the Select Agent Program and the additional security practices entailed with research will be covered.
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)