

MICROBIOLOGY (MICR)

Course numbers with the # symbol included (e.g. #400) have not been taught in the last 3 years.

MICR 805 - Immunology

Credits: 3

An introduction to the fundamental mechanisms of the immune system with applications in basic research, medicine and public health. Topics include the mechanisms of induction, regulation, and expression of the cellular and humoral immune responses, antigen-antibody reactions, immunogenetics, immunopathologies, and immunodeficiencies. Prereq: introductory microbiology and lab.

MICR #806 - Virology

Credits: 3

Principles of animal and selected plant and bacterial virology in relation to infection and disease. Emphasizes the molecular biology of viruses, vital replication, isolation, propagation, assay, pathogenesis, diagnosis, detection, epidemiology, and control. Prereq: introductory microbiology and lab.

MICR 808 - Virology Laboratory

Credits: 2

Principles of animal and selected plant and bacterial virology in relation to infection and disease. Emphasizes the molecular biology of viruses, vital replication, isolation, propagation, assay, pathogenesis, diagnosis, detection, epidemiology, and control. Prereq: introductory microbiology and lab.

MICR 815 - Immunology Laboratory

Credits: 2

This applied immunology laboratory course highlights both historic and current methodologies important for both elucidation and diagnosis of immune function. Techniques used to study phagocytosis, antibody production, immunodiffusion, and T-cell function will be introduced. Applications of the antibody technologies to other scientific disciplines (ELISA, immunofluorescence microscopy, immunoblotting, etc.) will also be covered. Prereq: introductory microbiology and lab. Special fee.

MICR 895 - Special Topics

Credits: 1-4

Advanced studies in specific areas. Prereq: permission. May be repeated to a maximum of 8 credits.

MICR 899 - Master's Thesis

Credits: 1-10

May be repeated up to a maximum of 10 credits. Cr/F.

MICR 999 - Doctoral Research

Credits: 0

Cr/F.