

MCB: Microbiology Courses

Courses

MCB 1000 Fundamentals of Microbiology
3 sh (may not be repeated for credit)

An introductory microbiology course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. Will cover the principles of microbiology, including cellular organization, growth, and metabolism of major microbial groups (bacteria, fungi, viruses and protozoa); cultivation and control of microbes; and the interaction between microorganisms and humans as it relates to disease transmission, pathogenesis, control measures, and treatment. Meets General Education requirement in Natural Sciences.

MCB 1000L Fundamentals of Microbiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MCB 1000*

An introductory microbiology laboratory course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. The lab will focus on basic microbiological techniques relating to isolating, growing, and identifying medically significant microorganisms. Laboratory exercises include microscopy and staining techniques; asepsis and culturing of microorganisms; appropriate handling techniques, including sterilization and disinfection; and methods of enumeration and identification of bacteria. Emphasis will be placed on those concepts and methods that are significant in the medical setting. Material and supply fee will be assessed.

MCB 3020 Microbiology
3 sh (may not be repeated for credit)
Prerequisite: (BSC 2011/L OR (BSC 1085/L AND BSC 1086/L)) AND (CHM 2210)

Microbial morphology, physiology and taxonomy; relationships of microorganisms to total environment.

MCB 3020L Microbiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MCB 3020*

Microbial morphology, physiology, and taxonomy; relationships of microorganisms to total environment. Material and Supply Fee will be assessed.

MCB 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MCB 4276 Epidemiology of Infectious Disease
3 sh (may not be repeated for credit)

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 5273; graduate students will be assigned additional work.

MCB 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MCB 5273 Epidemiology of Infectious Disease
3 sh (may not be repeated for credit)

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 4276; graduate students will be assigned additional work.

MCB 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MCB 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

* This course may be taken prior to or during the same term.