

MICROBIOLOGY (MCROBIO)

Microbiology (MCROBIO) 233

General Microbiology

Morphology, physiology, classification and culture of bacteria and related organisms. The role of bacteria related to human welfare and to plants and animals. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated eight credit hours will be counted towards graduation.

Grade of C or better in BIOLOGY 121.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: DA, HW, KK, MX, OH, TR, WR

Microbiology (MCROBIO) 234

Applied Microbiology

A sequence course to a second semester fundamentals course in microbiology. This course is designed for students majoring in biotechnology. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in MCROBIO 233.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: TR

Microbiology (MCROBIO) 236

Applied & Environmental Microbiology

The goal of this course is to learn about the use of microorganisms (bacteria, archaeobacteria, protists, fungi, and viruses) in the population of pharmaceuticals, foods, and industrial chemicals, as well as in applications such as bioremediation. Specifically, genetic engineering and biotechnology will be discussed. Secondly, interaction of microorganisms with other organisms and the physical environmental will be explored. In particular, microbial ecology, biogeochemical cycles, and public health microbiology will be addressed. Field sampling methods and analytical techniques (including molecular biology methods) will be utilized. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in BIOLOGY 121.

4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.

Offered At: OH