

Microbiology Program-Student Goals

GOAL 1: Students majoring in Microbiology will develop a comprehensive understanding and appreciation for the diversity and significance of microbes on planet earth, including: a) the principles of microbial physiology, biochemistry, and genetics, b) the diversity of both prokaryotic and eucaryotic microbes, as well as their evolutionary relationships, c) the interactions and impact of microorganisms in the environment, and d) the interactions and impact of microorganisms with plant, animal, and human hosts.

GOAL 2: Students pursuing the Bachelor of Science degree in Microbiology will acquire a strong background in the biological, chemical, and physical sciences to prepare them for advanced study in specialty microbiology courses.

GOAL 3: Students majoring in Microbiology will develop a conceptual understanding of the principles of modern Molecular Biology in prokaryotic and eucaryotic systems. In addition, they will develop the technical laboratory skills to apply current techniques to microbial systems.

GOAL 4: Students majoring in Microbiology will develop information literacy-access skills as well as the oral and written communication skills necessary to access and evaluate scientific information relevant to contemporary topics/issues in microbiology. In addition to accessing, evaluating, and summarizing available information, students will develop oral and written communication skills necessary to present their findings to both student peers and Microbiology faculty.