MB 533  Current Topics in Microbiology

Meeting Times and Location: This is an on-line course

Credits: 3

Prerequisites: A minimum of two years of science teaching and at least one college level course in either biology or microbiology.

Course Description

This course will provide an inquiry based study of current issues in Microbiology. It is a course for science educators designed to provide them with sufficient background information to discuss current microbiology related topics with their students. Topics will be selected by what is considered “newsworthy” and can include topics such as hospital acquired and community acquired infections, antibiotic resistance, immunizations, food safety and drinking water. Emphasis will be placed on the ramifications of issues with respect to industry, medicine, and personal health. A review of literature will provide background information for the topics in order to provide teachers sufficient and correct information to hold discussions regarding these topics in their classrooms. The goal of this course is to provide a rigorous examination of the topics for students in the Masters of Science in Science Education (MSSE) Program.

Topics

Major topics to be covered will be determined as the course progresses during the semester through student input, discussion and consensus.

Texts

Current literature including research and review articles will provide the material for the course. In addition, students will be directed to a number of websites, such as the American Society of Microbiology and Centers for Disease Control.