



MICRO 747 ADVANCED BACTERIOLOGY

Course Description: Those students who plan to do research in bacteriology as a major portion of their future career are encouraged to take this course. The course is taught from a research perspective and is based heavily on current literature. Students are expected to gain an understanding of the present state of knowledge regarding major disease causing organisms. Included also are descriptions of currently employed methods needed for this field of research. Problem solving is an important aspect of research and this is a talent that the course hopes to develop and will evaluate for each student.

Credit Hours: 2 semester hours

Course Prerequisites: MICRO 701, MICRO 725

Course Dates: Fall of every other year.

Course Times: Class meets for two hours twice a week plus there are additional sessions for special items (e.g., attendance at a particular seminar or grand rounds presentation).

Course Location: Classes are held in the Randall Conference room (a departmental conference room).

Instructor: The course is “team taught” by several bacteriology researchers, including Drs. O’Callaghan, McDaniel, Lundrigan, and Marquart.

Required Text and Other Learning Resources: There is no required textbook, but multiple books are available for reference. The classroom sessions generally are based on new findings on a particular organism or group of organisms.

Course Overview: This course has faculty-lead discussions of research papers assigned to the students for the class session. Students are encouraged to discuss the positive and negative aspects of the published research and to draw comparison from one study to another. There are problem solving exams and homework assignments.

Course Objectives: The intent is to provide students with knowledge to allow them to understand the state of knowledge on particular bacterial diseases and to allow them to be able to incorporate future findings into a growing image of this field of research.

Grading Policy and Rubric. Students are evaluated on their ability to comprehend the research presented for consideration and discussion and for their ability to use this new information to solve problems. In class participation is recognized as a component of the final grade (20%), but the bulk of the evaluations is derived from oral presentation of research by each student and problem solving written exams.

Course Policies: Students are to learn from assigned literature papers and discussions of these papers with the faculty and other students. They are to learn facts, methods and, develop from these experiences, a talent for solving problems.

University Policies:

Students with disabilities (ADA) statement: See UMC policy
Academic honesty statement: See UMC policy