



MICR 702: Viruses

Course Description: A select survey of the families of animal viruses with emphasis on molecular and immunological aspects of virus replication and pathogenesis.

Credit Hours: 3 semester hours

Course Prerequisites: MICRO 701, BIOCH 710, or approval of the course director.

Course Dates: Spring 2009

Course Times: TBA

Course Location: TBA

Instructor: VG Chinchar, Course Director, R509A; S Stray, K Chong, Mary Marquart, Richard O'Callaghan

Required Text and Other Learning Resources: TBA

Course Overview: The course consists of a mixture of didactic lectures, indepth discussions of primary research papers, and student presentations. The focus will be on select animal virus families and topics that illustrate fundamental principles of virus replication and pathogenesis. Molecular aspects of virus replication and the ways in which viruses trigger pathogenesis will be major foci of interest.

Course Objectives: Upon completion of this course, students will be able to:

1. Plan molecular and immunological experiments designed to uncover new aspects of virus replication and virus-induced pathogenesis.
2. Understand the theory behind contemporary molecular and immunological techniques
3. Understand the basic replication strategy of animal viruses.
4. Understand immune evasion strategies of animal viruses.

Grading Policy and Rubric. Grades will be assigned based on the following format:

Test #1 - 30%

Test #2 - 30%

Student Presentation (oral and written) - 25%

In Class Quizzes - 15%

Course Policies:

Students are expected to attend class and actively participate in class discussions; make-up tests will be given for reason of illness, etc., instructors are available for additional help.

University Policies:

Students with disabilities (ADA) statement Refer to UMC policy
Academic honesty statement Refer to UMC policy