



## MICRO 735: Viral biochemistry

**Course Description:** This course will be focused on discussions of the current research literature related to viral biochemistry and viral immunology. In addition, student research projects will be discussed and evaluated.

**Credit Hours:** 1- 2 semester hours

**Course Prerequisites:** MICRO 701, BIOCH 710, MICRO 702 or approval of the course director.

**Course Dates:** TBA

**Course Times:** TBA

**Course Location:** TBA

**Instructor:** VG Chinchar, Course Director, R509A; S Stray, co-course director

**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. In addition, there will be workshop sessions in which the student's research project is discussed. 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: Class participation and seminar presentation. The seminar will be assessed using the seminar rubric currently used in the Department of Microbiology.

**Course Policies:**

Students are expected to attend all class meetings and actively participate in class discussions.

University Policies:

Students with disabilities (ADA) statement Refer to UMC policy

Academic honesty statement Refer to UMC policy

