



## MICRO 760 MEDICAL VIROLOGY

**Course Description:** One of four courses that comprises distinct sections of the larger Medical Microbiology course MICRO 611/701. The fundamentals of viral infections discussed from the standpoint of etiology, epidemiology, and pathogenesis and laboratory diagnosis. Participation in small group sessions is required.

**Credit Hours:** (3 semester hours, Spring 2009)

**Course Dates:** See attached schedule

**Course Times:** See attached schedule

**Course Location:** See attached schedule

**Instructor:** See attached schedule

**Required Text and Other Learning Resources:** Medical Microbiology-Fifth Edition (2005) by Murray, Rosenthal, Kobayashi and Tenover. All material covered in the lectures, Blackboard material, small group discussions, clinical correlations and laboratory periods will be covered on the written examinations and/or quizzes.

**Course Overview:** Medical Virology is the basic science foundation for understanding clinical work in viral infectious diseases. This course presents basic information on viruses and the differential diagnosis and treatment of viral diseases. The epidemiology, clinical presentation, pathogenesis of viral diseases will also be emphasized. Students will learn through the lecture series, and clinical correlation as well as in interactive small group sessions.

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

- The ability to reason deductively in solving clinical problems related to viral diseases.
- Knowledge of:
  - Mechanisms by which viruses attack the body to cause disease.
  - Diagnosis, prevention, treatment, and epidemiology of infectious diseases including the impact of infectious agents on the human body.

**Grading Policy and Rubric:** There will be one written examination (final exam) that will be worth 85% of the final grade. The student's participation in small

group sessions (Patient Oriented Problem Solving sessions (POPS) or case presentation) will determine 12% of the final grade. The remaining 3% will be determined by quizzes. Graduate students must score 80% or more to pass this course. No bonus points will be awarded for extracurricular activities. There will be no make-ups for unexcused missed activities. Unexcused absences from mandatory events can result in deductions from the final grade average.

**Course Policies:**

Course Attendance: Students are expected to attend microbiology lectures. Students are required to attend mandatory special events in this course including all guest lectures and case discussions. Students with more than two unexcused absences from mandatory events will be required to attend a conference with the course directors to discuss their absenteeism. More than two unexcused absences from mandatory events will result in deductions from the final grade average (see grading details). An excused absence based on a physician's excuse will not result in a deduction from the final grade. Other extenuating circumstances will be considered upon the recommendation of the Dean of Graduate Studies.

Course Communication: GroupWise and Blackboard software are among the official methods of communication between students and faculty in the course. All students are required to regularly check their GroupWise email and Microbiology 701 Blackboard course website for postings. Students are responsible for obtaining their own copies of class materials provided in these ways. All class notices will be sent to each student's GroupWise email account. Class handouts and other documents will be available for download from the Microbiology 611 Blackboard site (<http://elearning.umsmmed.edu/>). Technical support for Blackboard is available from Dr. Lushbaugh, Dr. Bengtén or Dr. Lundrigan. Questions on lecture materials will be answered verbally in class or by return email and will generally involve the input of the person who taught the topic in question. All course announcements and answers to student inquiries will be posted on our course Bb site for reference.

Assignments and Test: Make-up tests will only be given in the case of severe illness; assignments are due on the assigned dates

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

### EXAMPLE CLASS SCHEDULE

<b>Micro 760 Medical virology</b>				
Tuesday, January 06, 2009	1:00	Virology I_– Structure (6)	Chinchar	R354
Tuesday, January 06, 2009	2:00	Virology II – Replication (6)	Chinchar	R354
Wednesday, January 07, 2009	1:00	Virology III – Pathogenesis (49)	Chinchar	R354
Wednesday, January 07, 2009	2:00	Immunity to Viral Infection (68)	Chinchar	R354
Thursday, January 08, 2009	1:00	Herpesvirus I (54)	Marquart	R354
Thursday, January 08, 2009	2:00	Herpesvirus II (54)	Marquart	R354
Friday, January 09, 2009	9:00	Poxviruses, Adenovirus, Parvoviruses (55, 56)	Chinchar	R354
Tuesday, January 06, 2009	1:00	Papovaviruses (52)	Chong	R354
Wednesday, January 07, 2009	9:00	Retroviruses I (65)	Chinchar	R354
Wednesday, January 07, 2009	1:00	Retroviruses II (65)	Chinchar	R354
Thursday, January 08, 2009	9:00	<b>Clinical - (Retroviruses III Clinical Vignettes) Required</b>	Swaitlo	R354
Friday, January 09, 2009	9:00	Viruses and Cancer (53)	Chong	R354
Tuesday, January 13, 2009	1:00	Hepatitis Viruses I (66)	Stray	R354
Tuesday, January 13, 2009	2:00	Hepatitis Viruses II (66)	Stray	R354
Wednesday, January 14, 2009	1:00	Hepatitis Viruses III (66)	Stray	R354
Wednesday, January 14, 2009	2:00	Picornaviruses (57)	Chinchar	R354
Thursday, January 15, 2009	1:00	Slow Viruses (67)	Sullivan	R354
Thursday, January 15, 2009	2:00	Rhinoviruses, and Coronaviruses	Chinchar	R354
Friday, January 16, 2009	9:00	Rotaviruses	Chinchar	R354
Tuesday, January 20, 2009	9:00	Orthomyxoviruses (60)	Chinchar	R354
Wednesday, January 21, 2009	1:00	POP: Serologic Diagnosis and Epidemiology of Influenza <b>Required</b>	Faculty	Group
Wednesday, January 21, 2009	2:00	Small Group meetings will begin in small group rooms.	Faculty	Group
Thursday, January 22, 2009	9:00	Paramyxoviruses, Rubella Virus (59)	Chinchar	R354
Thursday, January 22, 2009	1:00	Arboviruses	Sullivan	R354
Thursday, January 22, 2009	2:00	Viral Zoonoses (Arenaviruses, Rhabdoviruses) I	Sullivan	R354
Friday, January 23, 2009	9:00	Viral Zoonoses (Arenaviruses, Rhabdoviruses) II	Sullivan	R354
Tuesday, January 27, 2009	1:00	Viral Vaccines and Gene Therapy	Sullivan	R354
Wednesday, January 28, 2009	9:00	<b>CC -Dx of Respiratory Tract Pathogens Required</b>	Shoemaker-Moyle	R354
Thursday, January 29, 2009	9:00	Review of Virology	Faculty	R354
Friday, January 30, 2009	8:00	<b>Exam Block 4 - Begins</b>		
Friday, January 30, 2009	1:30	<b>Microbiology (Virology) Exam 4, 2 hr</b>	Faculty	R354

