



## MICRO 761 MEDICAL IMMUNOLOGY

**Course Description:** One of four courses that comprises a distinct sections of the larger Medical Microbiology course MICRO 611/701.

**Credit Hours:** 3 semester hours

**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:** Case Studies in Immunology by Rosen and Geha, is the required text. A suggested text is Immunology by Doan, Melvold, Ciselli and Waltenbaugh. All material covered in the lectures, Patient Oriented Problems, Blackboard material, small group discussions, and clinical correlations will be covered on the written examinations and/or quizzes.

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

- The ability to reason deductively in solving clinical problems related to infectious and immune diseases.
- Knowledge of:
  - Normal immunological functions of the human body and how the body defends itself against and responds to microbial infections.

**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. There will be no penalty for medically excused absences or for the first two unexcused absences from required events. After two unexcused absences from required events, each additional absence will result in the deduction of three (3) points from the final grade average. For example five unexcused absences from mandatory events will result in the deduction of nine points from the final grade average for the course (see example below)

**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, case discussions and Patient Oriented Problem sessions. 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 one of the Associate Deans.

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 611 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.umsmc.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**  
**MEDICAL IMMUNOLOGY 761 CLASS SCHEDULE FOR 2008-09**  
**ACADEMIC YEAR**

<b>Day, Date, Year</b>	<b>Time</b>	<b>TITLE</b>	<b>Faculty</b>	<b>Rm.</b>
Tuesday, August 05, 2008	1:00	Introduction to Microbiology 611	O'Callaghan	R354
Tuesday, August 05, 2008	1:10	Innate Immunity – Barriers (11-15)	Miller	R354
Tuesday, August 05, 2008	2:00	Innate Immunity – Inflammation – 1/2	Miller	R354
Wednesday, August 06, 2008	9:00	Innate Immunity – Inflammation – 2/2	Miller	R354
Wednesday, August 06, 2008	1:00	Lymphoid Cells and Tissues	Miller	R354
Wednesday, August 06, 2008	2:00	Acquired Immunity - Antigens and Immunogenicity	Bengtén	R354
Thursday, August 07, 2008	1:00	B Lymphocytes and Genetic Basis for Ab Diversity	Bengtén	R354
Thursday, August 07, 2008	2:00	Immunoglobulins: Structure and Function - The Five Isotypes	Wilson	R354
Friday, August 08, 2008	9:00	Immunoglobulin: Class Switching, Allotypes and Idiotypes	Wilson	R354
Tuesday, August 12, 2008	1:00	Antigen-Antibody Reactions	Bengtén	R354
Wednesday, August 13, 2008	9:00	Innate immunity, B cells and Immunoglobulins review	Miller, Wilson, Bengtén	R354
Wednesday, August 13, 2008	1:00	Complement 1/2	Lobb	R354
Wednesday, August 13, 2008	2:00	Complement 2/2	Lobb	R354
Thursday, August 14, 2008	1:00	The T Cell Receptor & MHC molecules	Wilson	R354
Thursday, August 14, 2008	2:00	The Role of MHC in Immunity, T cell activation 1	Miller	R354
Friday, August 15, 2008	9:00	The Role of MHC in Immunity, T cell activation 2	Miller	R354
Tuesday, August 19, 2008	1:00	Anaphylaxis POP Small Groups (Bee Careful) <b>Required</b>	Faculty	Group
Tuesday, August 19, 2008	to	Small Group meetings will begin in small group rooms. AND		
Tuesday, August 19, 2008	5:00	Anaphylaxis Manikin Small Groups (see attached schedule)	Faculty	CW01
Wednesday, August 20, 2008	9:00	T cell Effector Functions and Immune Regulation - Cytokines	Bengtén	R354
Wednesday, August 20, 2008	1:00	The Role of CD Markers and Adhesion Molecules/Review	Wilson + Faculty	R354
Thursday, August	1:00	Patient Oriented Problem (POP):	Faculty	Group

21, 2008		<b>Tetanus Immunity Required</b>		
Thursday, August 21, 2008	to	AND		
Thursday, August 21, 2008	5:00	Anaphylaxis Manikin Small Groups (see attached schedule)	Faculty	CW01
Friday, August 22, 2008	9:00	Undesirable Consequences in Immunity/Hypersensitivities	Lobb	R354
Tuesday, August 26, 2008	1:00	POP: "A Jaundiced Baby" Small Groups <b>Required</b>	Faculty	Group
Tuesday, August 26, 2008	to	AND		
Tuesday, August 26, 2008	5:00	Anaphylaxis Manikin Small Groups (see attached schedule)	Faculty	CW01
Wednesday, August 27, 2008	1:00	POP: An Immunoassay Teaching Package Small Groups <b>Required</b>	Faculty	Group
Wednesday, August 27, 2008	2:00	Small Group meetings will begin in small group rooms.		
Thursday, August 28, 2008	1:00	<b>CC - Immunology Case Presentations/Discussion</b>	DeShazo	R354
Monday, September 01, 2008		Labor Day		
Tuesday, September 02, 2008	1:00	POP: Transplantation Immunology Small Groups <b>Required</b>	Faculty	Group
Tuesday, September 02, 2008	2:00	Small Group meetings will begin in small group rooms.		
Wednesday, September 03, 2008	9:00	Tolerance, Transplantation, Immune Surveillance	Bengtén	R354
Wednesday, September 03, 2008	1:00	Immunodeficiencies	Wilson	R354
Wednesday, September 03, 2008	2:00	Neuroimmunology & TH1 TH2 imbalance	Marshall	R354
Thursday, September 04, 2008	1:00	POP: Immunodeficiency Disease Small Groups <b>Required</b>	Faculty	Group
Thursday, September 04, 2008	2:00	Small Group meetings will begin in small group rooms.		
Friday, September 05, 2008	9:00	Review "Q and A"	Faculty	R354
Monday, September 08, 2008		<b>Exam Block I begins</b>		
Friday, September 12, 2008	9:00	<b>Immunology Final Exam 1 - 2 hr</b>	Faculty	R354