



## MICRO 763 MEDICAL PARASITOLOGY/MYCOLOGY

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

**Credit Hours:** (1 semester hour; Winter)

**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 Pfaller. The Microbiology 611 Laboratory Manual (latest edition will be available for sale in September). All material covered in the lectures, Blackboard material, clinical correlations and laboratory periods will be covered on the written examinations and/or quizzes.

**Course Overview:** Medical Microbiology is the Basic Science foundation for understanding clinical work in infectious diseases. This course presents basic information on microorganisms and the differential diagnosis and treatment of microbial diseases. The epidemiology, clinical presentation, pathogenesis of microbial diseases will also be emphasized. Students will learn through the lecture series, and clinical correlation as well as in interactive small group sessions, laboratory exercises, patient oriented problem solving and simulations.

**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 diseases.
- Knowledge of:
  - Mechanisms by which fungi and parasites 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:**

Assignments and Tests: Each of the laboratory sessions is an online virtual laboratory session on Blackboard that includes written and pictorial materials in either mycology or parasitology. Each of the on-line laboratory sessions ends with an on-line quiz. A grade higher than 80% on each of the two on-line lab quizzes is required for a passing grade in the course, however, each quiz may be taken as many times as necessary to achieve a grade above 80. At the end of this Mycology-Parasitology section a one-hour written examination will be given. On-line laboratory sessions must be completed prior to the written final examination. A grade greater than 80% is required on this written exam to pass the course. Questions included will be similar to those given to medical students taking the Micro 701 course in medical microbiology on the mycology/parasitology section. The final course grade will be a weighted average of quiz and examination grades with each on-line lab quiz counting 10% of the final grade (labs = 20%) and the final written examination counting 80% of the final grade (total 100%). Graduate students must have a final weighted average higher than 80% to have passed this course. Make-up tests will only be given in the case of severe illness.

## **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 laboratory 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 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 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.

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

Academic honesty statement: See UMC policy

**EXAMPLE CLASS SCHEDULE**

<b>Micro. 763. Medical Mycology/parasitology</b>				
Friday, November 14, 2008	9:00	Superficial and Dermatophytoses Mycoses (71-73)	Sullivan	R354
Tuesday, November 18, 2008	9:00	Systemic Mycoses (74)	McDaniel	R354
Wednesday, November 19, 2008	9:00	Mycoses Opportunistic (75)	McDaniel	R354
Thursday, November 20, 2008	9:00	GI and GU Protozoa (82)	Lushbaugh	R354
Friday, November 21, 2008	9:00	Parasites of the Immunosuppressed (83)	Lushbaugh	R354
Tuesday, November 25, 2008	9:00	Blood and Tissue Protozoa (83)	Meade	R354
Tuesday, November 25, 2008	1:00	Roundworms (Nematodes) (84)	Meade	R354
Thursday, November 27, 2008	5:00	Thanksgiving Holiday		
Monday, December 01, 2008	9:00	Tapeworms (Cestodes) (86)	Meade	R354
Tuesday, December 02, 2008	9:00	Flukes (Trematodes) (85)	Lushbaugh	R354
Wednesday, December 03, 2008	1:00	SECTION A Mycology Laboratory	Faculty	virtual
Wednesday, December 03, 2008	3:00	SECTION B Mycology Laboratory	Faculty	virtual
Friday, December 05, 2008	9:00	Medically Important Arthropods as direct causes of disease (87)	Goddard	R354
Tuesday, December 09, 2008	9:00	Medically Important Arthropods as vectors of disease (87)	Goddard	R354
Tuesday, December 09, 2008	1:00	SECTION B Parasitology Laboratory	Faculty	virtual
Tuesday, December 09, 2008	3:00	SECTION A Parasitology Laboratory	Faculty	virtual
Thursday, December 11, 2008	9:00	Clinical Presentation (Sexually Transmitted Diseases)	Burton	R354
Friday, December 12, 2008	9:00	Overview of Gram Negatives, Mycology, Parasitology	Faculty	R354
To be arranged (TBA)		Written examination (one hour) on Mycology and Parasitology	Faculty	TBA
Friday, December 19, 2008	5:00	Winter Holiday		