

1-2003

MICB 412.01: Medical Bacteriology and Mycology

Michael F. Minnick

University of Montana - Missoula, mike.minnick@mso.umt.edu

Let us know how access to this document benefits you.

Follow this and additional works at: <https://scholarworks.umt.edu/syllabi>

Recommended Citation

Minnick, Michael F., "MICB 412.01: Medical Bacteriology and Mycology" (2003). *Syllabi*. 1198.
<https://scholarworks.umt.edu/syllabi/1198>

This Syllabus is brought to you for free and open access by the Course Syllabi at ScholarWorks at University of Montana. It has been accepted for inclusion in Syllabi by an authorized administrator of ScholarWorks at University of Montana. For more information, please contact scholarworks@mso.umt.edu.

MICB 412 Medical Bacteriology & Mycology

Spring Semester, 2002

Class meets M,W, F at 9:10 - 10:00 am in NS 307

Professor: Mike Minnick (HS 509; telephone: 243-5972).

Office Hours: Open door policy

Textbook: Jawetz *et al.*, *Medical Microbiology*, 22nd Edition

Date	Topic	Chapter
January		
28, 30	Introduction, virulence and pathogenesis	9
February		
1, 4	Antimicrobials and resistance	10
6, 8	Staphylococci	14
11, 13	Streptococci	15
15	Gram + sporeformers	12
18	Holiday-President's Day	
20	Gram + sporeformers (cont.)	12
22	Gram + non-sporeformers	13
25	Exam 1 (100 points)	
27	Gram + non-sporeformers (cont.)	13
March		
1, 4, 6, 8	Enterics	16
11	Pseudomonads	17
13, 15	<i>Vibrio</i> , <i>Helicobacter</i> and <i>Campylobacter</i>	18
18-22	Holiday- Spring Break week	
25, 27	<i>Haemophilus</i> , <i>Bordetella</i> , <i>Brucella</i>	19
29	<i>Yersinia</i>	20
April		
1	Exam 2 (100 points)	
3	<i>Francisella</i> , <i>Pasteurella</i>	20
5	<i>Neisseria</i> (COLLOQUY #1 DUE- 5 PM*)	21
8	<i>Legionella</i> , <i>Bartonella</i>	23
10	<i>Mycoplasma</i> , <i>Ureaplasma</i>	26
12	Rickettsiae	27
15	Mycobacteria	24
17	Nocardia and Actinomycetes	45
19	Spirochetes	25
22	<i>Chlamydia</i>	28
24, 26	Pathogenic Fungi	13
29	Exam 3 (100 pts)	
May		
1	Pathogenic Fungi (cont.)	45
3	Normal flora (COLLOQUY #2 DUE- 5 PM*)	11
6, 8	Immunity	8
10	Catch up and review	
13	FINAL examination- (10:10 to 12:10)	

GRADING - Three lecture exams (100 pts each), a final (150 pts), and a colloquy (100 pts) will be used to evaluate your progress in Medical Bacteriology & Mycology. The final will consist of

100 pts comprehensive and 50 pts from the last five lectures following exam 3. Total points possible in the lecture are 550. 90%, 80%, 70%, and 60% of the total points represent cutoff points for an A, B, C, and D, respectively.

*Late assignments are charged a fee of 10% of the total points, per day of tardiness.

EXAMS - Excuses for missing exams must be cleared **prior** to the exam times. Anyone missing the **final** exam will receive an "F" for the course. Cheating on exams will also result in an automatic F for that examination with no exceptions. A second episode of cheating will result in an F for the course, with no exceptions.

MICB 412 Medical Bacteriology & Mycology
Spring Semester, 2002

COLLOQUY

DUE DATES- Colloquy #1- April 5- 5:00 pm (All students)
Colloquy #2- May 3- 5:00 pm (Grads and undergrad re-writes)

Directions: Choose a 2001 or 2002 **research** article in medical microbiology that interests you, read it in depth, and write a synopsis. The synopsis is basically a condensed summary of the article in **your own words**. Do **not** write a synopsis on a review article or a general topic. You must include a copy of the original research article when you submit your colloquy.

Access: Research articles can be found in a variety of journals including *Science*, *Journal of Infectious Disease*, *Journal of Bacteriology*, *Infection and Immunity*, etc., in the Mansfield Library. You may scan articles in the journals or search the MEDLINE database on the CD-ROM stations in the library, for particular key words or subjects that interest you (e.g., virulence determinants, pathogenesis, medical mycology, etc.). Remember, if there is no medical microbiology in the article, it is not suitable for this assignment.

Format: The format is as follows:

- 4 pages double-spaced and typed.
- Begin with a brief introduction of the topic, goals of the research, etc.
- Follow this section with a discussion of the experimental approach, and justification, but don't go into detail on the individual protocols employed. Why did they use sequencing? Why did they do an animal model to study virulence? etc.
- Finally, discuss the results and how they support the author(s)' conclusions. If you do not agree with the authors, please expound. How could the paper be improved?
- Discuss the significance of the paper to immunology.

Grading: 100 pts will be given based upon writing clarity, grammar, conforming to format, overall flow of logic and how well the article is summarized. A 10% reduction in points per day will be penalized for tardy colloquies. Plagiarism will result in an automatic F for the assignment. Don't use the authors' words.

Purpose: To introduce prospective scientists to literature-searching and contemporary research in medical microbiology.

Assignments: **Undergraduates must complete Colloquy #1.** The assignment will be corrected and returned. If you are satisfied with the grade on colloquy #1 you can ignore the second colloquy due date. However, if you are not happy with the colloquy #1 grade, you may do a second colloquy **on another article** and turn it in by the Colloquy #2 due date. The better grade of the two assignments will be used to calculate your final grade.

Graduate students will prepare both colloquies on two separate articles. The due dates are as indicated in the syllabus. Each graduate colloquy is worth 50 points.