

7-2013

BIOM 250N.30: Microbiology for the Health Sciences

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Microbiology for Health Sciences – BIOM 250N Sections 30 & 31; 3 credits

Lecture: M-Th 7:30 am to 9:20 am; ISB 110; July 1st till August 1st

Instructor: Dr. Jarrod Pollock

Phone: TBD Email: Jarrod.Pollock@mso.umt.edu

Office Hours: TBD

Office Location: TBD

Course Description: This course focuses on infectious diseases, including concepts of virulence, resistance, prevention, and control of microbial diseases in the individual and in the community.

Text: Clinical Microbiology Made Ridiculously Simple (required); Available in bookstore

FactPac: BIOM 250 Microbiology for the Health Sciences (required); ONLY available in bookstore

Exams: Tests will consist of multiple choice, short answer, and discussion questions.

They will be taken in class and are closed book. There will be three (3) exams, each covering the general topics of the course.

Missing exams:

- If you know you will miss a test, contact me beforehand.
- If absence is unavoidable and unplanned (i.e. family emergency, sickness, etc.) you must contact me before the next class period.
- To take a make-up test you will need a valid excuse and written justification provided within one week.

Otherwise, tests cannot be handed in late and cannot be made-up.

Attendance: It is strongly encouraged that you attend class every day; summer session moves quickly and we have a LOT of material that will be covered.

The goal of this course is to acquaint health profession students with the principles of immunology and infectious diseases. Students are expected to learn the functions of host defense systems, the names, diseases, modes of transmission and methods of treatment and prevention of viral, bacterial, fungal and parasitic infectious disease agents. Upon completion of this course, students should be well prepared to explain the ramifications of the diagnosed disease and the prescribed treatment with their clients. Achievement of these goals will be assessed by three one-hour exams (100 pts each). Final grades will be normalized to highest points earned. Grades will then be assigned on a >90% ~ A; 89-80 ~ B; 79-70 ~ C; 69-60 ~ D; <60 ~ F. Grades will use the +/- system. There are study guides at the end of the **FactPac**. The first lists bacteria and the diseases they cause, the second lists all the infectious disease agents discussed in this class by routes of transmission or classification.

NOTE: University policies on drops, adds, changes of grade option, or change to audit status will be strictly enforced in this course. These policies are described in the UM catalog. Students should specifically note that after July 8th at 5 PM to August 1st (BEFORE the 3rd EXAM), such changes are NOT automatically approved. They may be requested by petition, but the petition MUST be accompanied by documentation of extenuating circumstances. Students expecting a refund will not receive all money back and the amount decreases for every day you attend class. Therefore, dropping the course as soon as possible will afford you more of a refund than waiting till the last minute (LAST date for refund is July 8th 5PM and only refunds a max of 50%). Requests to drop a course or change the grade basis to benefit a student's grade point average will not be approved. Students with disabilities may request reasonable modifications by contacting Dr. Pollock. The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (OSS). "Reasonable" means the University permits no fundamental alterations of academic standards or retroactive modifications. For information see: <http://life.umt.edu/dss/>.

Grading:

Lecture Grade:

Exam 1 (11 July, Thursday) = 100

Exam 2 (23 July, Tuesday) = 100

Exam 3 (1 Aug, Thursday) = 100

Total Course Points Possible = 300**Letter grades assignment (% of total possible Points)**

A (94- 100%); A- (90-93%)

B+ (87 - 89%); B (83-86%); B- (80-82%)

C+ (77 - 79%); C (73-76%); C- (70-72%)

D+ (67 - 69%); D (63-66%); D- (60-62%)

F (less than 60%)

Class Schedule (subject to change at any time)

Date	Topic	Reading	
7/1	Introduction / Infectious agents	FactPac	Clin Micro MRS
7/2	Infectious agents / Interaction of Host & Infection	p 1, 6	Ch. 2
7/3	Non-specific Defenses	p 8	
7/4 Holiday	NO CLASS-Holiday		
7/8	Acquired Immunity	p 10	
7/9	Intro to Bacterial Diseases / Gram + Cocci	p 14, 17	Ch. 1, 4 & 5
7/10	Gram – Diplococci / Gram + Sporeformers	p 20, 23	Ch. 6
7/11 EXAM 1	EXAM 1		
7/15	Gram + Non-sporeformers / Mycobacteria	p 27, 28	Ch. 7 & 14
7/16	Gram – Enterics	p 31	Ch. 9
7/17	Gram – Coccobacilli / Spirochaetes	p 33, 36	Ch. 10, 11 & 13
7/18	Rickettsia / Chlamydia	p 38, 39	Ch. 15 & 12
7/22	Antibiotics	p 41	<u>Ch. 16 – 19, & 33</u>
7/23 EXAM 2	EXAM 2		
7/24	Intro to Viruses / Viral Diseases / DNA viruses	p 45, 47	Ch. 22, 26 & 27
7/25	RNA Viruses / Lentiviruses (HIV)	p 49, 51	Ch. 22-25, 28 & 29
7/29	Fungal Diseases (Superficial, Subcutaneous, Systemic, Opportunistic, Toxic)	p 53	Ch. 20 & 21
7/30	Intro to Parasitic Diseases / Protozoa	p 56, 58	Ch. 30 & 31
7/31	Nematodes / Trematodes / Emerging Diseases	p 58, 60	Ch. 31
8/1 EXAM 3	EXAM 3		