

**MMBB 412/513**  
**Pathogenic Microbiology**

*Course Logistics*

**Time:** MWF 7:30-8:20  
**Location:** Life Science 277  
**Instructor:** Scott Kobayashi, PhD  
**Office:** 209 Ag Biotech  
**Phone:** 885-0805  
**Email:** [sdkobi@uidaho.edu](mailto:sdkobi@uidaho.edu)

**Office hours:** Fridays 9:00-10:00 (subject to change) or by appointment

*Required Textbook*

**Medical Microbiology.** Mims, Dockrell, Goering *et al.*, 3<sup>rd</sup> edition, 2004.  
Elsevier/Mosby, St. Louis, MO.

*Prerequisites*

**MMBB 250, General Microbiology.** A strong basic understanding of the principles and concepts presented in general microbiology is essential for success in this course. Thus, students will be expected to review this material on their own time (<http://www.ag.uidaho.edu/mmbb/pdf/mmbb250.pdf>).

*Exams and Grading criteria*

**MMBB412:** There will be a total of **FOUR** exams *including* the final exam. All exams for undergraduate students will be graded according to a standard curve. Your final grade in the course will be determined by the average of your **THREE** highest exam scores on a non-weighted basis (100 pts/exam). There will be no make-up exams or extra credit offered for this course. The final exam for the course will be comprehensive. Exam questions will comprise lecture materials and required readings. Please note that you will also be responsible for material presented during the graduate student lectures.

**MMBB513:** Testing criteria for MMBB 513 will be the same as for MMBB 412, with the exception that graduate students will be omitted from the standard curve and exam grades will be based on a strict percentile basis. In addition, graduate students will be responsible for one full class lecture. The topic of the lecture must be approved by the instructor in advance and will focus on specific topics in microbial pathogenesis. The grade that you receive on your presentation will represent 25% of your final grade.

*Professionalism*

Students are reminded that cheating as defined by the UI student manual is not acceptable and any infraction will result in the maximum allowable penalty. Students are expected to read the assigned chapters before the class meets and to attend all lectures. Students are strongly encouraged to actively participate in discussion.

### *Class website*

Lecture material and additional relevant information will be posted on the course website (<http://courses.ag.uidaho.edu/mmbb/mmbb412>). There will be supplemental material available on the website for each microbe discussed during the course of the semester. Please note that you are responsible for this material for testing purposes. Many of these microorganisms/disease were presented in MMBB 250.

**Login:** mmbb412user

**Password:** mmbb412

### *Tentative class schedule*

Exam dates are inflexible. However, individual lecture topics are subject to change and will be updated on the course website.

	<u>Date</u>	<u>Lecture</u>	<u>Assigned Reading</u>
1	Jan 10, Wed	Introduction	Approach, Ch 1
2	Jan 12, Fri	Bacteria	Ch 2
	<b><i>Jan 15, Mon</i></b>	<b><i>MLK Day-no classes</i></b>	
3	Jan 17, Wed	Viruses	Ch 3
4	Jan 19, Fri	Fungi	Ch 4
5	Jan 22, Mon	Host-pathogen relationships	Ch 8
6	Jan 24, Wed	Innate immunity	Ch 9
7	Jan 26, Fri	Adaptive immunity I	Ch 10
8	Jan 29, Mon	Adaptive immunity II	Ch 11
9	Jan 31, Wed	Intro to infectious diseases	Ch 12
<b>10</b>	<b>Feb 2, Fri</b>	<b>EXAM I</b>	
11	Feb 5, Mon	Entry, exit, transmission	Ch 13
12	Feb 7, Wed	Immune response	Ch 14
13	Feb 9, Fri	Spread and replication	Ch 15
14	Feb 12, Mon	Evasion and persistence	Ch 16
15	Feb 14, Wed	Pathology of infection	Ch 17
16	Feb 16, Fri	Upper respiratory tract I	Ch 18
	<b><i>Feb 19, Mon</i></b>	<b><i>Presidents' Day-no classes</i></b>	
17	Feb 21, Wed	Upper respiratory tract II	Ch 18
18	Feb 23, Fri	Lower respiratory tract	Ch 19
19	Feb 26, Mon	Urinary tract	Ch 20
20	Feb 28, Wed	Sexually transmitted diseases I	Ch 21
21	Mar 2, Fri	Sexually transmitted diseases II	Ch 21
22	Mar 5, Mon	Gastrointestinal tract I	Ch 22

	<u>Date</u>	<u>Lecture</u>	<u>Assigned Reading</u>
23	Mar 7, Wed	Gastrointestinal tract II	Ch 22
<b>24</b>	<b>Mar 9, Fri</b>	<b>EXAM II</b>	
<i>Mar 12-Mar 16 Spring recess-no classes</i>			
25	Mar 19, Mon	Obstetric and perinatal	Ch 23
26	Mar 21, Wed	Central nervous system	Ch 24
27	Mar 23, Fri	Eye infections	Ch 25
28	Mar 26, Mon	Cutaneous/subcutaneous I	Ch 26
29	Mar 28, Wed	Cutaneous/subcutaneous II	Ch 26
30	Mar 30, Fri	Vector-borne	Ch 27
31	Apr 2, Mon	Multisystem zoonoses	Ch 28
32	Apr 4, Wed	Fever of unknown origin	Ch 29
33	Apr 6, Fri	Opportunistic disease I	Ch 30
34	Apr 9, Mon	Opportunistic disease II	Ch 30
35	Apr 11, Wed	Diagnosis	Ch 31, 32
36	Apr 13, Fri	Vaccination	Ch 31, 34
37	Apr 16, Mon	Review of pathogens I	
38	Apr 18, Wed	Review of pathogens II	
<b>39</b>	<b>Apr 20, Fri</b>	<b>EXAM III</b>	
40	Apr 23, Mon	Antibacterial agents	Ch 33
41	Apr 25, Wed	Antiviral agents	Ch 33
42	Apr 27, Fri	Antifungal agents	Ch 33
43	Apr 30, Mon	Student presentations	
44	May 2, Wed	Student presentations	
45	May 4, Fri	Student presentations	
<b>46</b>	<b>May 8, Tue</b>	<b>EXAM IV</b>	