

MB 201 – INFECTIOUS DISEASES Spring 2010

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Office hours: Tuesdays 11:00 and Wednesdays 2:10. Or by appointment - I'll make time to meet with you

Lectures:

- Monday, Wednesday, Friday 11:00-11:50 a.m., 339 Leon Johnson Hall
It is important to attend lecture since material will be presented that appears on tests but may not be in the textbook. Also, participation points are earned and unannounced quizzes will be given.

Textbook:

- Microbiology: Principles and Explorations, 7th ed., by Jacquelyn G. Black

Text Readings & Chapter Questions:

- I will not cover material "in order" from the textbook – or we'd never get to the interesting stuff!
- At the D2L website is a list of possible **Topics** to be covered, along with the appropriate **Readings in the Text**. After each lecture, be sure to read the corresponding material in the textbook to increase your understanding of the topic.
- At the end of each chapter there are **Self-Quiz Questions** for your own use in learning the material. A list of appropriate questions for review can be found at D2L. Some questions may be on material not covered in lecture and are possible quiz or exam questions. I will not be collecting these.

Grading:

4 Exams @ 100 points each	400 pts
Participation points (drop 5) @ 3 pts each	~45 pts
12 Quizzes (drop 3) @ 5 pts each	<u>45 pts</u>
Total	~490 pts

Final grades are determined by percentage of total points earned:

A 93-100%	B- 80-82	D+ 67-69
A- 90-92	C+ 77-79	D 63-66
B+ 87-89	C 73-76	D- 60-62
B 83-86	C- 70-72	F below 60%

- Exams:** Exam 1 – Friday February 5
Exam 2 – Wednesday March 3
Exam 3 – Wednesday April 7
Exam 4 – Friday April 30 (during class) OR Wednesday May 5 at 9:00 a.m. (in lecture room)

Exams will be multiple choice/matching questions based on material covered in lecture and from the Self-Quiz questions at the end of each chapter. Exams are *not* comprehensive. Each exam will be 50 questions, worth 2 points per question, for a total of 100 points.

I offer "**incentive grading**" for improvement on regularly scheduled exams. This means, for example, if you improve by 20 points from exam 1 to exam 2, I will give you back half the improvement (10 points) as extra credit points. Same goes for improvement from exam 2 to exam 3 and from exam 3 to exam 4.

Note: Use of electronic devices during exams is not allowed. Please put away cell phones, MP3 players etc. during exams.

- **iClickers, Participation points & Quizzes:** Quiz scores and participation points will be collected by use of iClicker devices (available at the MSU Bookstore).

During most lecture periods there will be some questions for you to respond to with your clicker. Participation will earn you 3 points each time and will equal ~10% of your overall grade. You cannot make up missed participation points, however I will drop 5 participation points in case you are absent or just forgot your clicker.

There will be 12 unannounced quizzes which are meant to encourage regular study of the course material. You cannot make up missed quizzes, however the 3 lowest quiz grades will be dropped. Each quiz will be worth 5 points for a total of 45 points for the semester (~ 10% of the total grade).

The reason for using the clickers and having quizzes is several-fold: to encourage class attendance, to determine student understanding, to survey student attitudes or previous knowledge, to encourage students to keep up with material and to give students sample questions similar to those that will be on exams.

Note: Use of someone else's clicker to secure their points is considered to be unethical; both for the student requesting another student to click for them, and the person who is using the clicker.

Clicker registration will be done online, however, the clickers will record your answers whether you have registered or not – they are functional right away. In order to register on line you must first have used your clicker in class at least once. Go to the **MSU website** > Current Students (lefthand column) > iClicker Registration. You will need your NetID, password and your clicker number (printed on the back of your clicker). I will then be able to connect your clicker with your name in my records.

DO NOT REGISTER THROUGH THE iCLICKER WEBSITE – ONLY THROUGH MSU!

If your clicker number has been rubbed off I have a program that can read the number – see me after class. Or you can go to the textbook desk in the MSU Bookstore where they have a reader that will give you a printout of your number.

- **Extra credit:** Extra credit points can be earned by filling in a **Disease Report Sheet** for one disease or organism listed on the inside front and back covers of the textbook. The form is available through the D2L website for this class. The chosen disease must be one which has NOT already been covered in class at the time you turn it in.

I will accept ONE Report Sheet up through the day of each of the four regular exams for a total of 4 for the semester. Report Sheets are worth 3 points each for a total of 12 points of possible extra credit. (This is equivalent to 2.5 percentage points of your final grade.) I do not return extra credit articles unless requested.

Desire2Learn (D2L) Website:

- Accessible through the MSU Website (lefthand side) > Desire2Learn >log on [format: first.last and password] >My Courses > MB201 > Course Homepage > **Content**
- Available course materials (in pdf format) include:
 - Syllabus, Topics & Readings
 - List of Chapter Questions (for your review)
 - Infectious Disease Report Sheet (form for extra credit)
 - Lectures - will be posted shortly before material is covered.
 - Keys to exams – posted after exam time
- Also at the D2L MB201 Homepage is a list of Links to websites of interest:
 - Centers for Disease Control (CDC)
 - Morbidity and Mortality Weekly Report (MMWR)
 - Science Daily
 - World Epidemiological Record (WER)
 - World Health Organization (WHO)
 - Flu.gov
- **Grades** are also available through D2L as soon as I have posted them.

Suggestions for success in this class:

- Attend all lectures and bring your clicker.
- Take good lecture notes and then read the sections in the text that pertain to the new material given in each lecture. (Refer to the chapters listed during lecture and use the index at the back of the text to locate specific topics.) Look at the figures in each chapter that apply to the material too.
- Answer the self-quiz questions listed for each chapter covered.
- Study some microbiology on a daily basis rather than waiting to learn it all just before the exams. This will keep you ready for the in-class quizzes. Be sure to ask for further clarification if you find you don't understand something.
- Some students find it helpful to make flashcards with new terms. Be sure you also understand how those terms fit in context with the material – exams are not vocabulary tests. Other students make outlines of the material. Find what works best for you.
- Pay attention to exam dates.
- Think about doing the extra credit – it can make the difference for a higher grade.
- Check your answers after each exam so you know what material you missed. Also, check your grades through D2L so you are not surprised later in the semester. Keep track of all your grades.

Students with special needs:

- If you need special arrangements for your test taking (e.g. through the MSU Testing Center or Disability, Re-entry & Veterans Services) you must bring me your documentation along with any forms that need to be filled out well in advance of any examinations this semester. This is to allow me to get the exams to these offices in plenty of time.

If you are sick:

Please stay home if you have an infectious disease that may be communicable to others. If you are able to, contact me via email or phone, so I can help you stay caught up when you are able to return.

Topics and Diseases:

*This list is subject to change. Obviously we cannot cover every disease so I have chosen those that illustrate certain key

concepts in microbiology or that are important and interesting.

- Introduction to Microbiology
- History of Microbiology
 - cholera
 - syphilis
- Types of Microorganisms
- Classification
- Eukaryotes
 - protozoa:
 - giardiasis
 - toxoplasmosis
 - fungi:
 - dermatophytes
 - helminths:
 - blood fluke
 - beef tapeworm
 - ascariasis
 - filariasis
- Prokaryotes
 - anthrax
 - pneumococcus
- Viruses & Prions
 - influenza
- Epidemiology, Nosocomial Infections & Bioterrorism
 - case study: foodborne infection (listeriosis)
 - case study: zoonosis (tularemia, *Pasteurella*)
 - case study: airborne infection (histoplasmosis)
 - case study: nosocomial infection (*Pseudomonas*)
- Host-Microbe Interactions & Emerging Diseases
 - UTI
 - strep throat
 - botulism
 - tetanus
 - West Nile
- Microbial Control
 - pseudomembranous colitis (*C. difficile*)
 - MRSA – methicillin-resistant *Staphylococcus aureus*
- Innate (Nonspecific) Host Defenses
- Adaptive Host Defenses (Immunology) & Vaccines
 - HIV/AIDS
- Diseases of the Skin & Eyes
 - folliculitis
 - scalded skin syndrome
 - scarlet fever
 - erysipelas
 - pyoderma/impetigo
 - rubella
 - measles
 - warts
 - ophthalmic neonatorum
 - pinkeye
 - trachoma

- Diseases of The Respiratory Tract
 - diphtheria
 - whooping cough
 - Legionnaires' disease
 - tuberculosis (TB)
- Diseases of the Digestive System
 - staphylococcal enterotoxigenesis
 - salmonellosis
 - *E. coli*
 - viral enteritis
 - rotavirus & norovirus
 - hep A, B, C, D, E
 - amoebic dysentery
 - cryptosporidiosis
- Diseases of the Blood
 - plague
 - infectious mononucleosis
 - brucellosis
 - Rocky Mtn. spotted fever
- Diseases of the Nervous System
 - bact. meningitis
 - leprosy (Hansen's disease)
 - rabies
- Diseases of the Urogenital Tract & STDs
 - leptospirosis
 - gonorrhoea
 - chlamydia
 - herpes simplex