

MCB 3020 General Microbiology

Welcome to the Microbial World, Your World

Fall - 2016 Classes: MWF 8:00-8:50AM SIPA 125 [General Microbiology Laboratory Site](#)

Instructor: [John Makemson](#) - Office (OE246/247) Hours: MTWThF 9-10AM) + and other times by appointment. For questions, comments PLEASE send e-mail to makemson@fiu.edu or phone for an appointment: 305-348-1907

TEXTBOOK: Text: Madigan et al., Brock: Biology of Microorganisms, **14th Edition**. Pearson Publishing. FIU Bookstore sells the Loose Leaf edition at the highest possible price. From Amazon, Google Play you can get the hardback book, kindle edition or others to rent. You can get a good price (about \$50-\$60) on a used book on ebay or other Web booksellers.

iClickers: iClickers are for sale in the bookstore; and you can get used ones. Your iClicker needs to be registered, so **make sure the iClicker ID number on the back of the instrument is readable**, during the first week of class you will need to register your iClicker through the iClicker website. The results of iClicker use as well as your Exam grades will be transferred to the course's Blackboard site. First week tests your clicker. See the last page about using more than your own clicker/class.

CLASSES: The classes will include the use of i-Clickers in problem solving and lecture quiz questions (these are significant, see grading below). It is to your distinct advantage to study the class material BEFORE class so you can get the maximum clicker points.

PLEASE use the Textbook's End of Chapter Review Questions and Application Questions as well as practice exams (multiple choice and written) for each chapter. And, MOST IMPORTANTLY *test your knowledge out with the book closed well before the Classes and Exams. Exams will be multiple choice questions.*

GRADING: 1. Exams: 5 Exams, 100 points each = 500 points.
2. iClicker answers in Class = 100+ points (likely to be more).
Total Possible Points = 600+ points.

PEER LED TEAM LEARNING: PLTL will be available for this class. PLTL is an enhanced way to learn just about any subject and has an intrinsic value in that. PLTL is graded and if you elect to participate in PLTL, your PLTL grade will be adjusted to at maximum add 20 points to your score (3.3% of total points possible increase).

MISSED CLASSES or EXAMS: missed classes or exams require a doctor's note or other official note explaining why you could not attend the class or exam. Make up exams will be given for valid written excuses. Make up classes (iClicker) will be done for valid written excuses in OE 246. Make-up exams (all written answer questions) or clicker questions must be done no later than 1 week after the class or exam.

BE SURE TO CHECK OUT: How to Get an "A" in Blackboard - MCB 3020 in Course Information

See Below for Practice Exams

Tentative Schedule

Class slides are available on the course's Blackboard Site.

Date	TOPICS	Class Preparation: Do these well so that you can maximize your Clicker Question points. Do the Miniquiz while reading, then the Review Questions and Application Questions:
Aug		Review Questions to Practice Before Class
22 M	Introduction/History, Ch 1 Practice Clicker Questions Don't Count the First Week	Ch 1: 2 - 10
24 W	Intro/History con't, Microscopy, Ch 1, 2	Ch2: 1 – 4 Application Question 1
26 F	History/Microscopy, Ch 2	Ch2: 5 – 26 Application Question 2, 5
29 M	Prokaryotic Cell Structure, Ch 2 Clicker Questions Count From Here, the Results are Posted on Blackboard.	Ch2: 5 – 26 Application Question 4
31 W	Prokaryotic Cell Structure, con't, Ch 2	Ch2: 5 - 26
Sept		
2 F	Prokaryotic Cell Structure, con't, Ch 2	
5 M	LABOR DAY = Holiday	
7 W	Microbial Metabolism, Ch 3	Ch3: 1-11
9 F	Microbial Metabolism, Ch 3	Ch3: 12-22 Application Questions 1, 4
12 M	EXAM 1	
14 W	Molecular Microbiology, Ch 4	Ch 4: 1, 3-9, 11-14, 16-20
16 F	Molecular Microbiology, Ch 4	ditto
19 M	Microbial Growth and It's Control, Ch 5	Ch 5: 1-21
21 W	Microbial Growth and It's Control, Ch 5	Application Questions 1-3
23 F	Microbial Genomics, Ch 6	Ch 6: 1, 3-14. Application Question 2.
26 M	Metabolic Regulation, Ch 7	Ch 7: 1-7, 9, 10, 14, 15, 17. Application Question 4
28 W	Viruses, Ch 8	Ch 8: 1-17
30 F	Viruses, Ch 8	Application Questions 1,2,4.
Oct		
3 M	EXAM 2	
5 W	Viral Genomics, Ch 9	Ch 9: 1-7.
7 F	Microbes and Humans, Ch 23	Ch 23: 1-12 Application Questions 1 and 3.
10 M	Immunity and Host Defense, Ch 24	Ch 24: 1-5, 7-10. Application Question 3.
12 W	Immune Mechanisms, Ch 25	Ch25: 1-10 Application Question 5
14 F	Diagnostic Microbiology and Immunology, Ch 27	Ch 27: 1-10, 13-17, 19.

3 M	Epidemiology, Ch 28	Ch 28: 1-11.
5 W	Human Transmitted Diseases, Ch 29	Ch 29: 1-4
7 F	Ch 29, con't	Application Questions 1, 3, 5
10 M	Soil and Vector Borne Diseases, Ch 30	Ch 30: 1, 3, 5-7, 9
12 W	Ch 30, con't	Application Questions 1, 3.
14 F	EXAM 3	
17 M	Ch 30, con't	
19 W	Common Source Diseases, Ch 31	Ch 31: 1-3, 5-14.
21 F	Common Source Diseases, Ch 31	Application Questions 1, 3.
24 M	Genetics: Bacteria and Archaea, Ch 10	Ch 10: 1-13.
26 W	Genetics: Bacteria and Archaea, Ch 10	Application Questions 1
28 F	Genetic Engineering, Ch 11	Ch 11: 1-10, 13, 15-16, 18
31 M	Microbial Ecology, Ch 18	Ch 18: 1-11, 13, 14.
<i>Nov</i>		
2 W	Microbial Ecosystems, Ch 19	Ch 19: 1-5, 9, 12.
4 F	Ch 19, con't	Application Question 1.
7 M	Nutrient Cycles, Ch 20	Ch 20: 1, 3, 5-8.
9 W	Ch 20, con't	Application Question 2, 3.
11 F	VETERANS DAY = Holiday	
14 M	EXAM 4	
16 W	Microbial Symbioses, Ch 22	Ch 22: 1, 3-11, 13, 16.
18 F	Ch 22, con't	
21 M	Microbial Evolution/Systematics, Ch 12	Ch 12: 1-8, 10-13, 16-20.
23 W	Ch 12.	Application Question 3
24-25	THANKSGIVING = Holiday	
28, 30, Dec 2	Finish course chapters. This is a tentative schedule!	
Dec 5-10	FINAL EXAM WEEK	

Practice Exams: [Exam 1](#), [Exam 2](#), [Exam 3](#), [Exam 4](#).

CHEATING: Cheating is clearly defined by the Student Handbook. With respect to Clickers, each student can use only their own clicker / class session. Using clickers of other students who are not present in the class is CHEATING. Fifty (50) points will be deducted from both iClickers of Cheaters.