

MICROBIOLOGY

Instructor:	Dr. Ronald Sizemore	BIO 425
Office:	Center for Marine Science 1118, Friday 1002A	Fall 2009
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<u>No.</u>	<u>Date</u>	<u>LECTURE</u>		<u>Chapter</u>	<u>LABORATORY</u>	
		<u>Topic</u>			<u>Date</u>	<u>Lab Number</u>
1	Aug 19	Microbiology		1	Aug 20	Lab Protocol
2	Aug 21	History		1		
3	Aug 24	Microscopes		4	Aug 25	1,5
4	Aug 26*	Cell Biology		4	Aug 27	6, 8
5	Aug 28	----		4		
6	Aug 31	Microbial Nutrition		5	Sept 1	10, 11, 12
7	Sept 2	Microbial Metabolism		5	Sept 3	14
8	Sept 4	Microbial Growth		6		
*** Labor Day Holiday - Sept 7 ***						
9	Sept 9	Control of Microbial Growth		20	Sept 8	15, 16, 17
10	Sept 11	TEST I		-	Sept 10	18(demo), 9, 19
11	Sept 14	Control of Growth (contd.)		20	Sept 15	20, 26, 28
12	Sept 16	Molecular Biology		7	Sept 17	26, 28, DNA Extraction
13	Sept 18	----		7		
14	Sept 21	Gene Regulation		8	Sept 22	38, 39
15	Sept 23	----		8	Sept 24	40, Decarboxylase Rx
16	Sept 25	Bacterial Genetics		10		
17	Sept 28	----		10	Sept 29	30
18	Sept 30	Virology		9	Oct 1	31, 32, 34
19	Oct 2	Human-Microbe Interactions		21		
*** Fall Vacation – October 5 -6 ***						
20	Oct 7#	TEST II		-	Oct 8	58
21	Oct 9	Immunology		22		
22	Oct 12	Epidemiology		25	Oct 13	LAB TEST I
23	Oct 14	Person to Person Diseases		26	Oct 15	36
24	Oct 16	----		26		
25	Oct 19	Vector Transmitted Diseases		27	Oct 20	36
26	Oct 21	Diseases (contd.)		27	Oct 22	36
27	Oct 23	Water Treatment & Waterborne Diseases		28		
28	Oct 26	Diseases (contd.)		28	Oct 27	36
29	Oct 28	Food Microbiology		29	Oct 29	DNA ext. & PCR
30	Oct 30	TEST III				

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<u>No.</u>	<u>Date</u>	<u>Topic</u>	<u>Chapter</u>	<u>Date</u>	<u>Lab number</u>
31	Nov 2	Microbial Genomics	15	Nov 3	Gel & Gene Clean
32	Nov 4	Genetic Engineering	31	Nov 5	Sequencing
33	Nov 6	Biotechnology	31		
34	Nov 9	Industrial Microbiology	30	Nov 10	47, Seq. Analysis
35	Nov 11	----	30	Nov 12	47, 52
36	Nov 13	Microbial Systematics	11		
37	Nov 16	Metabolic Diversity	17	Nov 17	47, Propagated Epidemic
38	Nov 18	Prokaryotic Diversity: Bacteria	12	Nov 19	33, 46
39	Nov 20	Prokaryotic Diversity (contd.)	12		
40	Nov 23	TEST IV		Nov 24	51, Yogurt prep
*** Thanksgiving Vacation – November 25 - 29 ***					
41	Nov 30	Prokaryotic Diversity: Archaea	13	Dec 1	LAB TEST II
42	Dec 2	Prokaryotic Diversity (contd.)	13		

****** December 9 – 8 am – FINAL EXAM ******

* August 26 = Last Day to add or drop without a grade

October 8 = Last day to withdraw with W

**THE DEPARTMENT OF BIOLOGICAL SCIENCES STRONGLY SUPPORTS
THE ACADEMIC HONOR CODE AS STATED IN THE STUDENT HANDBOOK AND
CODE OF STUDENT LIFE AND WILL NOT TOLERATE ACADEMIC DISHONESTY**

Grading:

Lecture Grade:

Tests (4)	150 points each
Final exam	150 points
	<u>Lecture subtotal</u> = 750 points

Laboratory Grade:

Lab Tests	100 pts
(2 –50 points each)	
Unknown Culture ID	50 points
Lab Notebooks	50 points
Lab Evaluation	50 points
	<u>Lab subtotal</u> = 250 points
TOTAL	100 % = 1000 points

Total Points for Course

Grades:

A = 90 – 100 %

B = 80 – 89 %

C = 70 – 79 %

D = 60 –69 %

F = > 60%

W = < 60 %

(+/- Grades will not be assigned in this course)

Note:

1. **Test dates** will not be changed except under extraordinary circumstances (e.g. hurricanes, snowstorms, etc).
2. Copies of the **old tests** are available for viewing on the Internet at <http://people.uncw.edu/sizemorer/rkswww> (this site contains other material relevant to the course).
3. **You are NOT allowed to drop or miss a TEST.** If uncontrollable circumstances prevent you from taking a test, you **MUST** notify me (e.g. telephone and leave a message or email) with an acceptable excuse at or before the time of the test. The instructor reserves the right to define what is an acceptable excuse. General examples: **Simply not being prepared is NOT an acceptable excuse**, while sickness, family emergencies and transportation problems are generally sufficient excuses. If you are excused from taking a test, the 3 remaining tests will count 200 points each (the Final Exam will still count 150 pts). Missing 2 tests is unacceptable.
4. **Attendance** at lectures is strongly recommended but not required. You are required to attend when tests are given. Attendance in **laboratory is mandatory** and any absences could result in a lower lab grade. **Tardiness** is disruptive to the class and could result in lower evaluation scores.
5. A **lab coat** is required for every lab. Safety goggles or glasses will be worn for most labs. A set of colored pencils is needed for laboratory drawings.

TEXT:

Lecture: M. T. Madigan and J. M. Martinko. **Brock Biology of Microorganisms** (11th Edition, 2006)

Laboratory: Alfred E. Brown. **Benson's Microbiological Applications** (11th Edition, Short Version, 2008). You must buy a new lab manual – used manuals are unacceptable!