MICROBIOLOGY

Instructor:	**Dr. Ronald Sizemore**	**BIO 425**
Office:	**Center for Marine Science 1118 , Friday 1002A**	**Spring 2010**
Telephone:	**962-2304**	**Office hours: MWF 9:00-9:45**
Email:	**Sizemorer@uncw.edu**	**or by Appointment**

		LECTURE		LABORATORY	
No.	**Date**	**Topic**	**Chapter**	**Date**	**Lab Number**
1	Jan 6	Microbiology	1	Jan 7	Lab Protocol
2	Jan 8	History	1		
3	Jan 11	Microscopes	4	Jan 12	1, 5
4	Jan 13*	Cell Biology	4	Jan 14	6, 8
5	Jan 15	- - - -	4		
		*** * * Martin Luther King Holiday January 18 * * ***			
6	Jan 20	Microbial Nutrition	5	Jan 19	10, 11, 12
7	Jan 22	Microbial Metabolism	5	Jan 21	14
8	Jan 25	Microbial Growth	6	Jan 26	15, 16, 17
9	Jan 27	Control of Microbial Growth	20	Jan 28	18(demo), 9, 19
10	**Jan 29**	**TEST I**	-		
11	Feb 1	Control of Growth (contd.)	20	Feb 2	20, 26, 28
12	Feb 3	Molecular Biology	7	Feb 4	26, 28, DNA Extraction
13	Feb 5	- - - -	7		
14	Feb 8	Gene Regulation	8	Feb 9	38, 39
15	Feb 10	- - - -	8	Feb 11	40, Decarboxylase Rx
16	Feb 12	Bacterial Genetics	10		
17	Feb 15	- - - -	10	Feb 16	30
18	Feb 17	Virology	9	Feb 18	31, 32, 34
19	Feb 19	Human-Microbe Interactions	21		
20	**Feb 22**	**TEST II**	-	Feb 23#	58
21	Feb 24	Immunology	22	**Feb 25**	**LAB TEST I**
22	Feb 26	Epidemiology	25		
23	Mar 1	Person to Person Diseases	26	Mar 2	36
24	Mar 3	- - - -	26	Mar 4	36
25	Mar 5	Vector Transmitted Diseases	27		
		*** * * Spring Vacation – March 6 – March 14 * * ***			
26	Mar 15	Diseases (contd.)	27	Mar 16	36
27	Mar 17	Water Treatment &Waterborne Diseases	28	Mar 18	36
28	Mar 19	Diseases (contd.)			
29	Mar 22	Food Microbiology	29	Mar 23	DNA ext.& PCR
30	**Mar 24**	**TEST III**	-	Mar 25	Gel & Gene Clean
31	Mar 26	Clinical Microbiology	24		

LECTURE			LABORATORY		
No.	**Date**	**Topic**	**Chapter**	**Date**	**Lab number**
32	Mar 29	Microbial Genomics	15	Mar 30	Gel & Gene clean
33	Mar 31	Genetic Engineering	31		
		*** * * Easter Vacation - April 1 – 4*****			
34	Apr 5	Biotechnology	31	Apr 4	Sequencing
35	Apr 7	Microbial Systematics	11	Apr 6	Seq. analysis, 47
36	Apr 9	Industrial Microbiology	30		
37	Apr 12	- - - -	30	Apr 14	47, 52
38	Apr 14	Metabolic Diversity	17	Apr 16	47, 52,Propagated Epidemic
39	Apr 16	Prokaryotic Diversity: Bacteria	12		
40	Apr 19	Prokaryotic Diversity (contd.)	12	Apr 20	33,46,51
41	**Apr 21**	**TEST IV**	-	Apr 22	**LAB TEST II**
42	Apr 23	Prokaryotic Diversity: Archaea	13		
43	Apr 26	Prokaryotic Diversity (contd.)	13		

*** * * * April 28 – 8 am – FINAL EXAM * * * ***

* January 13 = Last Day to add or drop without a grade

February 24 = 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**	
Lecture subtotal =		**750 points**

Laboratory Grade:

Lab Tests (2 –50 points each)	**100 pts**	
Unknown Culture ID	**50 points**	
Lab Notebooks	**50 points**	
Evaluation	**50 points**	
Lab subtotal =		**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 or email and leave a message) 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 will result in a grade of 0 for the second missed test.

4. Please be sure to **turn off** your cell phones before lecture starts and **during exams. Restroom breaks** are not allowed during exams.

5 **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 will result in lower evaluation scores.

6. A **lab coat** is required for every lab. Safety goggles will be worn for some labs. A set of colored pencils is needed for laboratory drawings.

TEXT:

Lecture: M. T. Madigan, J. M. Martinko and J. Parker. **Brock Biology of Microorganisms** (11th Edition, 2006). Used copies available online. (This text is not required but is recommended)

Laboratory: Custom Lab Manual taken from H. J. Benson. **Microbiological Applications** You must buy a new lab manual – used manuals are unacceptable! Manual are available in local bookstore. Do not order this manual online as the manual is customized for this course (Required)

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