

## *Academic Schedule BIO 235 Microbiology*

**Lecture:**     **11:00am - 12:25pm Monday/Wednesday**

**Lab 1:**       **01:00pm – 04:00pm Tuesday**

**Lab 2:**       **01:00pm – 04:00pm Wednesday**

**Lab 3:**       **05:00pm – 08:00pm Wednesday**

**Spring 2008**

**James E. Copeland**

Week - Dates	***** Lessons *****
1 / 1/23	Syllabus orientation/The Scientific Method/The Characteristic of Life/Prokaryotic and Cells / Required reading - Chapters - 1,3 & 4
2 / 1/28	Morphology of Bacteria – Required reading - Chapter 3
2 / 1/30	Quiz 1 / Morphology and Fine Structures of Bacteria – Required reading Chapter 3/ Microbial Growth – Required reading Chapter 5
3 / 2/04	Microbial Growth – Required reading - Chapters 5 & 6
3 / 2/06	Quiz 2 / Microbial Growth – Required reading - Chapters 5 & 6 / Metabolism and Enzymes – Required reading – Chapters 8 & 10
4 / 2/11	Microbial Metabolism – Required reading - Chapters 8, 9 & 10
4 / 2/13	Quiz 3 / Microbial Metabolism – Required reading – Chapters 8, 9, & 10
5 / 2/18	Microbial Genetics – Required reading – Chapters 11, 12, 13, 14, & 15 <b><u>Last day to retake pre-test</u></b> 9:30am – 10:30am or 4:00pm to 5:00pm
5 / 2/20	***** UNIT TEST 1 *****
6 / 2/25	Taxonomy / Bacteria – Required reading - Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, and Handouts
6 / 2/27	Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24,27,28, 29, 41, and Handouts / Quiz 4 (Take home – Due 11:00am 3/3/2008)
7 / 3/03	Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, and Handouts
7 / 3/05	Quiz 5 / Bacteria cont'd.
8 / 3/10	Fungi – Required reading – Chapter 26
8 / 3/12	Quiz 6 / Algae & Protozoans – Required reading – Chapter 25
9 / 3/17	SPRING BREAK
9 / 3/19	SPRING BREAK
10 / 3/24	Viruses – Required reading – Chapters 16, 17 & 18
10 / 3/26	***** UNIT TEST 2 *****

11	/	3/31	Control of Microbial Growth and Activity – Required reading – Chapter 7
11	/	4/02	Control of Microbial Growth and Activity – Required reading – Chapter 7 & 34
12	/	4/07	Quiz 7/ Control of Microbes cont'd./Nosocomial Infections – Required reading – Pages 908-910 of Chapter 36 and Handouts
12	/	4/09	Nosocomial infections cont'd/ Host – Microbe Interactions – Required reading – Chapters 30,33,35,36, and Handouts
13	/	4/14	Host – Microbe Interactions – Required reading – Chapters 30,33,35,36 & Handouts
13	/	4/16	Quiz 8 / Host – Microbe Interactions cont'd. / Defenses against Diseases – Required reading – Chapters 31,32,33,35 and Handouts
14	/	4/21	Defenses against Diseases – Require reading – Chapters 31,32,33,35 and Handouts
14	/	4/23	Air-Borne Diseases - Required reading – Chapters 37, 38, 39 and Handouts
15	/	4/28	Air-Borne Diseases – Required reading – Chapters 37, 38, 39, and Handouts
15	/	4/29	The last day to withdraw from classes.
15	/	4/30	Air-Borne Disease cont'd / Food and Waterborne Disease
16	/	5/05	Quiz 9/Food & Waterborne Diseases - Required reading–Chapters 37, 38,39,40, & Handouts
16	/	5/07	Skin disorders/Direct contact Diseases & Diseases acquired via Vectors – Required reading – Chapters 37, 38, 39, and Handouts
17	/	5/12	***** UNIT TEST 3 *****
17	/	5/13	Review Unit test III (Time TBA)
17	/	5/14	Final Exam – 11:00am – 01:00pm

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**BIO 235 MICROBIOLOGY LAB SCHEDULE ROOM 215**

**LAB 1: 01:00PM – 04:00PM TUESDAY**

**LAB 2: 01:00PM – 04:00PM WEDNESDAY**

**LAB 3: 05:00pm – 08:00PM WEDNESDAY**

<b>WEEK - DATE(S)</b>	<b>***** LESSONS *****</b>
1 / 1/23	<b>Lecture – Prokaryotic vs Eukaryotic cells / Groups of Microorganisms and The Characteristics for Classifying Microbes – Required reading – Chapters 1, 3, and 4 (1:00pm – 2:25pm)(5:00pm – 6:25pm)</b> <i>LAB</i> – Laboratory Policies & Procedures/The Microscope and Microscopy – Required reading – <b>Chapter 2</b> (2:35pm – 4:00pm)(6:35 – 8:00pm)
2 / 1/28(Tuesday lab)	Lecture – 1:00pm – 2:25pm / Lab – 2:35 – 4:00pm
2 / 1/29 - 30	Care and Use of the Microscope
3 / 2/05 -06	Morphological Identification & Classification of Various Groups of Microbes
4 / 2/11-12-13	Identification of Microbes cont'd.
5 / 2/19-20	*Isolation Techniques – Identification of various Groups of Microbes
6 / 2/26-27	*Experiment in Bacterial Transformation – Live Microbes
7 / 3/04-05	LAB PRACTICAL 1 / Video DNA Analysis / Practice Techniques
8 / 3/11-12	<i>LAB</i> - Experiment in DNA Analysis (Viral DNA)
3/11-12	<b>Lecture – Taxonomy of Bacteria</b>
<b>9 / 3/18-19</b>	<b>Spring Break</b>
10 / 3/25-26	Cultural Characteristics / Simple and Gram Staining Techniques
11 / 4/01-02	The Gram Staining Technique
12 / 4/08-09	Gram Staining
13 / 4/15-16	Acid-Fast, Capsule, and Endospore Staining Techniques
14 / 4/22-23	* <i>LAB</i> – 1:00pm – 2:30pm (Microbial Metabolic Tests) <b>LECTURE – 2:40pm – 4:00pm (Defense Against Diseases)</b>
15 / 4/29-30	* <i>LAB</i> – 1:00pm – 2:25pm (Microbial Sensitivity Tests) <b>LECTURE – 2:40pm – 4:00pm (STD'S) &amp; Wounds and Abrasions</b> – Required reading – Chapters 37, 38, 39
16 / 5/06-07	***** LAB PRACTICAL 2 ***** <i>Written (70 points) and Unknowns (30 points) = 100 points</i>

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\* Students are required to return to lab in 24 hours to observe and record the results.