

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

Spring 2012

James E. Copeland

Week - Dates	***** Lessons *****
1 / 1/23	The Scientific Method/The Characteristic of Life/Prokaryotic and Eukaryotic Cells / Required reading - Chapters - 1,3 & 4
1 / 1/25	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 6
2 / 2/01	Microbial Growth – Required reading - Chapters 6 & 7
3 / 2/06	Quiz 2 / Microbial Growth – Required reading - Chapters 6 & 7 / Metabolism and Enzymes – Required reading – Chapters 9, 10, 11
3 / 2/08	Microbial Metabolism – Required reading - Chapters 9,10,11
4 / 2/13	Quiz 3 / Microbial Metabolism – Required reading – Chapters 9, 10, 11
4 / 2/15	Microbial Genetics – Required reading – Chapters 12, 13, 14, 15, 16 <u>Last day to retake pre-test</u> 9:30am – 10:30am
5 / 2/20	***** UNIT TEST 1 *****
5 / 2/22	Taxonomy / Bacteria – Required reading - Chapters 17,18,19, 20, 21, 22, 26, 27, 28, 29, 30, 40, 41, 42 and Handouts
6 / 2/27	Taxonomy of Bacteria – Required reading – Chapters 17, 18, 19, 20, 21, 22, 26,27,28, 29,30, 40, 41, 42, and Handouts / Quiz 4 (Take home – 11am {2/29/2012})
6 / 2/29	Taxonomy of Bacteria – Required reading – Chapters 17, 18, 19, 20, 21, 22, 26, 27, 28, 29, 30, 40, 41, 42 and Handouts
7 / 3/05	Quiz 5 / Bacteria cont'd.
7 / 3/07	Fungi – Required reading – Chapter 24 / Algae – Chapter 23
8 / 3/12	Quiz 6/ Algae & Protozoans – Required reading – Chapter 23
8 / 3/14	Viruses – Required reading – Chapters 5 & 25
9 / 3/19	Spring Break
9 / 3/21	Spring Break
10 / 3/26	***** UNIT TEST 2 *****
10 / 3/28	Control of Microbial Growth and Activity – Required reading – Chapter 8

11	/	4/02	Control of Microbial Growth and Activity – Required reading – Chapter 8 & 34
11	/	4/04	Quiz 7/ Control of Microbes cont'd./Nosocomial Infections – Required reading – Pages 884-886 of Chapter 36 and Handouts
12	/	4/09	Nosocomial infections cont'd/ Host – Microbe Interactions – Required reading – Chapters 31, 36, and Handouts
12	/	4/11	Host – Microbe Interactions – Required reading – Chapters 31, 36 & Handouts
13	/	4/16	Defenses against Diseases – Required reading – Chapters 32, 33, 35 and Handouts
13	/	4/18	Defenses against Diseases – Require reading – Chapters 32, 33, 35 and Handouts
14	/	4/23	Quiz 8 / Air-Borne Diseases - Required reading – Chapters 37, 38, 39 and Handouts
14	/	4/25	Air-Borne Diseases – Required reading – Chapters 37, 38, 39, and Handouts
15	/	4/30	Air-Borne Disease cont'd / Food and Waterborne Disease
15	/	5/02	Quiz 9/Food & Waterborne Diseases - Required reading–Chapters 37, 38, 39, & Handouts
16	/	5/07	STD's / Skin disorders/ – Required reading – Chapters 37, 38, 39, and Handouts Disease Acquired Via Vectors 5/07/2012 Last day to withdraw from class.
16	/	5/09	Disease Cont'd
17	/	5/14	***** UNIT TEST 3 *****
17	/	5/15	Review Unit Test III 2:40pm – 4:00pm
17	/	5/16	Final Exam – 11:00am – 01:00pm

BIO 235 MICROBIOLOGY LAB SCHEDULE ROOM A211

LAB 1: 01:00PM – 04:00PM TUESDAY

LAB 2: 01:00PM – 04:00PM WEDNESDAY

WEEK - DATE(S)	***** LESSONS *****
1 / 1/24-25	Lecture – Prokaryotic vs Eukaryotic cells / Groups of Microorganisms and The Characteristics for Classifying Microbes – Required reading – Chapters 1, 3, and 4 (1:00pm – 2:10pm) <i>LAB – Laboratory Safety, Policies & Procedures/The Microscope and Microscopy – Required reading – <u>Chapter 2</u> (2:20pm – 4:00pm)</i>
2 / 1/31 -2/01	Care and Use of the Microscope
3 / 2/07 -08	Morphological Identification & Classification of Various Groups of Microbes
4 / 2/14-15	Identification of Microbes cont'd.
5 / 2/21-22	*Isolation Techniques – Identification of various Groups of Microbes
6 / 2/28-29	*Experiment in Bacterial Transformation – Live Microbes
7 / 3/06-07	LAB PRACTICAL I / Video DNA Restriction Analysis – Practice Techniques
8 / 3/13-14	<i>LAB - Experiment in DNA Analysis (Viral DNA)</i>
3/13-14	Lecture – Taxonomy of Protozoans if Needed
9 / 3/20-21	Spring Break
10 / 3/27-28	Cultural Characteristics / Simple and Gram Staining Techniques
11 / 4/03-04	The Gram Staining Technique
12 / 4/10-11	Gram Staining
13 / 4/17-18	Acid-Fast, Capsule, and Endospore Staining Techniques
14 / 4/24-25	* <i>LAB – 1:00pm – 2:30pm (Microbial Metabolic Tests)</i> Lecture: 2:45 – 4:00pm Systemic Mycosis
15 / 5/01-02	* <i>LAB – 1:00pm – 2:30pm (Microbial Sensitivity Tests)</i>
16 / 5/08-09	***** LAB PRACTICAL 2 ***** <i>Written (70 points) and Unknowns (30 points) = 100 points</i>

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