

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 2010

James E. Copeland

Week - Dates	***** Lessons *****
1 / 1/25	Syllabus orientation/The Scientific Method/The Characteristic of Life/Prokaryotic and Cells / Required reading - Chapters - 1,3 & 4
1 / 1/27	Morphology of Bacteria – Required reading - Chapter 3
2 / 2/01	Quiz 1 / Morphology and Fine Structures of Bacteria – Required reading Chapter 3/ Microbial Growth – Required reading Chapter 5
2 / 2/03	Microbial Growth – Required reading - Chapters 5 & 6
3 / 2/08	Quiz 2 / Microbial Growth – Required reading - Chapters 5 & 6 / Metabolism and Enzymes – Required reading – Chapters 8 & 10
3 / 2/10	Microbial Metabolism – Required reading - Chapters 8, 9 & 10
4 / 2/15	Quiz 3 / Microbial Metabolism – Required reading – Chapters 8, 9, & 10
4 / 2/17	Microbial Genetics – Required reading – Chapters 11, 12, 13, 14, & 15 <u>Last day to retake pre-test</u> 4:10pm – 5:20pm
5 / 2/22	***** UNIT TEST 1 *****
5 / 2/24	Taxonomy / Bacteria – Required reading - Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, and Handouts
6 / 3/01	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 3/4/2009)
6 / 3/03	Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, and Handouts
7 / 3/08	Spring Break
7 / 3/10	Spring Break
8 / 3/15	Quiz 5 / Bacteria cont'd.
8 / 3/17	Fungi – Required reading – Chapter 26 / Algae – Required reading Chapter 25
9 / 3/22	Quiz 6/ Algae & Protozoans – Required reading – Chapter 25
9 / 3/24	Viruses – Required reading – Chapters 16, 17 & 18
10 / 3/29	***** UNIT TEST 2 *****
10 / 3/31	Control of Microbial Growth and Activity – Required reading – Chapter 7

11	/	4/05	Control of Microbial Growth and Activity – Required reading – Chapter 7 & 34
11	/	4/07	Quiz 7/ Control of Microbes cont'd./Nosocomial Infections – Required reading – Pages 908-910 of Chapter 36 and Handouts
12	/	4/12	Nosocomial infections cont'd/ Host – Microbe Interactions – Required reading – Chapters 30,33,35,36, and Handouts
12	/	4/14	Host – Microbe Interactions – Required reading – Chapters 30,33,35,36 & Handouts
13	/	4/19	Quiz 8 / Defenses against Diseases – Required reading – Chapters 31,32,33,35 and Handouts
13	/	4/21	Defenses against Diseases – Required reading – Chapters 31,32,33,35 and Handouts
14	/	4/26	Air-Borne Diseases - Required reading – Chapters 37, 38, 39 and Handouts
14	/	4/28	Air-Borne Diseases – Required reading – Chapters 37, 38, 39, and Handouts
15	/	5/03	Air-Borne Disease cont'd / Food and Waterborne Disease
15	/	5/05	Quiz 9/Food & Waterborne Diseases - Required reading–Chapters 37, 38,39,40, & Handouts
16	/	5/10	STD's/ Skin disorders/ – Required reading – Chapters 37, 38, 39, and Handouts Last day to withdraw from class.
16	/	5/12	Skin disorders/Direct Contact Disease/Diseases Acquired Via Vectors – Required Reading – Chapters 37, 38, 39 and Handouts
17	/	5/17	***** UNIT TEST 3 *****
17	/	5/18	Review Unit Test III 2:40pm – 4:00pm
17	/	5/19	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 / 1/26-27	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 Policies & Procedures/The Microscope and Microscopy – Required reading – <u>Chapter 2</u> (2:25pm – 4:00pm)</i>
2 / 2/02 -03	Care and Use of the Microscope
3 / 2/09 -10	Morphological Identification & Classification of Various Groups of Microbes
4 / 2/16-17	Identification of Microbes cont'd.
5 / 2/23-24	*Isolation Techniques – Identification of various Groups of Microbes
6 / 3/02-03	*Experiment in Bacterial Transformation – Live Microbes
7 / 3/09-10	<i>Spring Break</i>
8 / 3/16-17	LAB PRACTICAL 1 / Video DNA Analysis / Practice Techniques
9 / 3/23-24	<i>LAB - Experiment in DNA Analysis (Viral DNA)</i>
3/23-24	Lecture – Taxonomy of Protozoans
10 / 3/30-31	Cultural Characteristics / Simple and Gram Staining Techniques
11 / 4/06-07	The Gram Staining Technique
12 / 4/13-14	Gram Staining
13 / 4/20-21	Acid-Fast, Capsule, and Endospore Staining Techniques
14 / 4/27-28	* <i>LAB – 1:00pm – 2:30pm (Microbial Metabolic Tests)</i> LECTURE – 2:40pm – 4:00pm (Air Borne Diseases)
15 / 5/04-05	* <i>LAB – 1:00pm – 2:25pm (Microbial Sensitivity Tests)</i>
16 / 5/11-12	***** 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.