

ACADEMIC SCHEDULE BIO 235 MICROBIOLOGY

Lecture: 5:00pm – 6:25pm Monday & Wednesday

Lab 1: 1:00pm – 4:00pm **Tuesday**

Lab 2: 5:00pm – 8:00pm **Tuesday**

Fall 2007

James E. Copeland

WEEK – DATE	***** LESSON(S) *****
1 08/27	Orientation/The Scientific Method & Critical Thinking/Microbiology and the Characteristics of life – Required reading Chapter, 1,3,4 <i>Pre-test 4:00pm – 5:00pm</i>
1 08/28	Lecture: 1:00pm–2:20pm & 5:00pm–6:20pm - Procaryotic versus Eucaryotic cells Groups of Microbes/The Characteristics used to classify Microbes & LAB: 2:30pm-4:00pm & 6:30pm–8:00pm Laboratory Policies and Procedures The Microscope and Microscopy – Required reading – Chapter 2
1 08/29	Morphology of Bacteria – Required reading – Chapters – 1, 3, 4
2 09/03	Labor Day Holiday – No class
2 09/04	LAB: The care and Use of the Microscope
2 09/05	The Morphology and Fine Structures of Bacteria – Required reading – Chapter 3 / Microbial Growth – Required reading – Chapter 5
3 09/10	<u>Quiz 1</u> / Microbial Growth – Required reading – Chapters 5 & 6
3 09/11	LAB: Morphological Identification & Classification of Microbes
3 09/12	Microbial Growth – Required reading – Chapters 5 & 6
4 09/17	<u>Quiz 2</u> / Microbial Growth cont'd / Microbial Metabolism - Required reading – Chapters 8 & 10
4 09/18	LAB: Identification of Microbes cont'd.
4 09/19	Microbial Metabolism – Required reading – Chapters 8, 9 & 10
5 09/24	<u>Quiz 3</u> / Microbial Metabolism – Required reading – Chapters 8, 9 & 10
5 09/25	LAB: Isolation Techniques / Observation of Living Microbes
5 09/26	Microbial Genetics – Required reading – Chapters 11,12,13,14,15 <i>Last day to retake – Pre-Test (6:35-7:35pm)</i>

WEEK – DATE ***** LESSONS *****

6 10/01 ***** **UNIT TEST 1** *****

6 10/02 **LAB:** An Experiment in Bacterial Transformation

6 10/03 Taxonomy and The Taxonomy of Bacteria – Required reading – Chapters 19,20,21,22,23,24,27,28,29,41

7 10/08 HOLIDAY NO CLASS

7 10/09 **LAB:** **LAB PRACTICAL 1** / Watch video on DNA Restriction Analysis

7 10/10 Taxonomy of Bacteria – Required reading – Chapters 19,20,21,22,23,24,27,28,29,41
Quiz 4 (take home) Due 5:00pm 10/15/2007

8 10/15 Quiz 5 / Taxonomy of Bacteria – Required reading – Chapters 19,20,21,22,23,24,27,28,29,41

8 10/16 **LAB:** DNA Restriction Analysis/**LECTURE:** Bacteria Taxonomy cont'd

8 10/17 Bacteria cont'd – Characteristics of Fungi – Chapter 26

9 10/22 The Characteristic and Taxonomy of Fungi - Required reading – Chapter 26
Algae – Chapter 25

9 10/23 **LAB:** Cultural Characteristics of a Select Group of Bacteria/Staining Techniques

9 10/24 Quiz 6/The Characteristics and Taxonomy of Algae & Protozoans–Required reading – Chapter 25

10 10/29 Characteristics & Classification of Viruses – Required Reading – Chapters 16,17,18

10 10/30 **LAB:** Gram Staining Procedure

10 10/31 ***** **UNIT TEST 2** *****

11 11/05 Control of Microbial Growth – Required reading – Chapters 7 & 34

11 11/06 **LAB: Gram Staining Procedure**

11 11/07 Control of Microbial Growth – Chapters 7 & 34

WEEK – DATE *** LESSON(S) *******

12 11/12 *Quiz 7/Control of Microbial Growth cont'd/ Nosocomial Infections*
 – Required reading – Chapter 36 (pgs. 908 -910) and Handouts

12 11/13 **LAB: Control of Microbial Growth (Microbial Sensitivity Test)**
Lecture: 2:35pm – 4:00pm & 6:35pm – 8:00pm - Nosocomial infections

12 11/14 Host – Microbe Interactions – Required reading – Chapters 30,33,35,36 / Handouts

13 11/19 Host – Microbe Interaction Required reading – Chapters 30,33,35,36/ Handouts

13 11/20 ***Lecture: Defenses against Diseases – Required reading – Chapter 31,32,33,35 & Handouts***

13 11/21 *Quiz 8/Defenses against Diseases cont'd / Air-Borne Disease –*
 Required reading – Chapters 37, 38, 39

14 11/26 Air-Borne Diseases – Required reading – Chapters 37, 38, 39 and Handouts

14 11/27 **LAB: Microbial Metabolic Tests (1:00pm – 2:35pm & 5:00pm – 6:35pm)**
LECTURE: 2:45pm & 6:45pm (Air-Borne Diseases cont'd / Chaps. 37,38,39)

14 11/28 Air Borne Diseases/Food & Water-Borne Diseases – Required reading
 –Chapters 38,39,40

15 12/03 Food & Water-Borne Infections -
 Required Reading - Chapters 37,38,39,40 & Handouts
LAST DAY TO WITHDRAW FROM CLASS

15 12/04 **LAB: Acid-fast, Capsule & Endospore Staining Techniques**

15 12/05 *Quiz 9 / STD 's/ Wounds & Abrasions -*
 Required reading – Chapters 37, 38, 39 & Handouts

16 12/10 Direct Contact Diseases / Diseases Acquired via Vectors – Required reading –
 Chapters 37, 38, 39 & Handouts

16 12/11 **LAB: LAB PRACTICAL 2 – (Written & Unknowns)**

16 12/12 ******* UNIT TEST 3 *******

17 12/17 Review Unit Test & The Semester

17 12/19 **FINAL EXAM 5:00pm – 7:00pm**
