

ACADEMIC SCHEDULE BIO 235 MICROBIOLOGY

LECTURE: 11:00am – 12:25pm MONDAY & WEDNESDAY

LAB: 01:00pm – 04:00pm MONDAY

LAB: 01:00pm – 04:00pm & 5:00pm – 8:00pm WEDNESDAY

FALL 2011

James E. Copeland

WEEK – DATE	*****LESSON(S)*****
1 08/29	The Scientific Method and Critical Thinking/Characteristic of Life/ Prokaryotic and Eukaryotic Cells - Required reading – Chapters 1, 3 & 4
1 08/31	The Morphology of Bacteria – Required reading – Chapter 3
2 09/05	Labor Day – No class
2 09/07	<u>Quiz 1</u> / The Anatomy of a Typical Bacteria Cell – Required reading – Chapter 3 Microbial Growth – Required reading – Chapters 6 & 7
3 09/12	Microbial Growth – Required reading – Chapters 6 & 7
3 09/14	<u>Quiz 2</u> Microbial Growth – Required reading – Chapters 6 & 7
4 09/19	Microbial Growth cont'd / Microbial Metabolism–Required reading–Chapters 9,10,11
4 09/21	Microbial Metabolism – Required reading – Chapters - 9, 10, 11
5 09/28	<u>Quiz 3</u> Microbial Metabolism cont'd / Microbial Genetics – Required reading Chapters 12,13,14,14,16
<i>09/28</i>	<i>Last Day to retake Pre-test (4pm – 5pm)</i>
5 09/28	Microbial Genetics – Required reading – Chapters 12, 13, 14, 15, 16
6 10/03	***** UNIT TEST 1 *****
6 10/05	Taxonomy and the taxonomy of bacteria – Required reading – Chapters 17,18,19,20,21,22,26,27,28,29,30,40,41,42 and handouts
7 10/10	Taxonomy of Bacteria – Required reading – Chapters 17,18,19,20,21,22,26,27,28,29, 30,40,41,42, Handouts / (<u>Quiz 4</u> take home – Due 11am 10/12/2011)
7 10/12	Taxonomy of Bacteria – Required reading – Chapters 17,18,19,20,21,22,26, 27,28,29,30,40,41,42 and Handouts
8 10/17	<u>Quiz 5</u> Taxonomy of Bacteria – Required reading – Chapters 17,18,19,20,21,22, 26,27,28,29,30,40,41,42 & Handouts
8 10/19	The Characteristic and Taxonomy of Fungi – Required reading – Chapter 24

9	10/24	<u>Quiz 6</u> / The Characteristics and Taxonomy of Algae and Protozoans – Required reading Chapters 23
9	10/26	The Characteristic and Classification of Viruses – Required reading – Chapters 5 & 25
10	10/31	*****UNIT TEST 2*****
10	11/12	Control of Microbial Growth – Required reading – Chapter 8
11	11/07	Control of Microbial Growth – Required reading – Chapters 7 & 34
11	11/09	<u>Quiz 7</u> / Control of Microbial Growth cont'd / Nosocomial infections Required reading - Pgs. 884-886 Chapter 36 & Handouts
12	11/14	Nosocomial infections cont'd / Host-Microbe Interactions – Required reading – Chapters 31, 36 and Handouts
12	11/16	Host-Microbe Interactions – Required reading – Chapters 31, 36 and Handouts
13	11/21	<u>Quiz 8</u> /Defense against Disease – Required reading – Chapters 32, 33, 35 & Handouts
13	11/23	Defense against Diseases–Required reading – Chapters 32, 33, 35 & Handouts
14	11/28	Defense against Diseases cont'd/ Air-Borne Diseases – Required reading – Chapters 37, 38, 39 and Handouts
14	11/30	Air-Borne Diseases – Required reading – Chapters 37, 38, 39, and Handouts
15	12/05	<u>Quiz 9</u> Air-Borne Diseases cont'd/ Food and Water-Borne Diseases – Required reading – Chapters 37, 38, 39 and Handouts
15	12/07	Food & Water-Borne /Wounds& Abrasions/Skin Disorders/Vector Diseases Required reading - Chapters 37, 38, 39, and Handouts
16	12/12	*****UNIT TEST 3*****
16	12/14	Review Unit Test 3 – Review prep for final exam
17	12/19	<u>FINAL EXAM 11:00AM – 1:00PM</u>

BIO 235 MICROBIOLOGY LAB SCHEDULE – ROOM A211

WEEK – DATE	***** LESSON(S) *****
1 08/29 - 31	Lecture: 1pm – 2:00pm M/W & 5pm – 6:00pm W 2:10pm M/W & 6:10pm W - LAB: - Laboratory Safety & Procedures Microscopes and Microscopy – Required reading – Chapter 2 in your text book
2 09/07 - 09*	Care and Use of the Microscope * Students in Monday’s lab (Friday 9/09/11 - 11:30am – 2:30pm) & (Monday 9/12/2011 – 8:00am – 11:00am)
3 09/12/14	Morphological Identification & Classification of Various Microbial Groups
4 09/19/21	Microscopic Observation and Identification of Microbes Cont’d.
5 09/26/28	LAB: Isolation Techniques #
6 10/03/05	Experiment in Bacterial Transformation # / Living Microbes
7 10/10/12	***LAB PRACTICAL 1 / Video DNA Analysis / Practice Techniques
8 10/17/19	Experiment in DNA Analysis / LECTURE: Taxonomy of Bacteria if needed
9 10/24/26	Cultural Characteristics / Simple and Gram Staining Techniques
10 10/31 - 11/02	Gram Staining Technique
11 11/07/09	Gram Staining Technique
12 11/14/16	LAB: Microbial Metabolic Test# – Lecture - Control of Nosocomial infections
13 11/21/23	Acid-fast, Capsule and Endospore Staining Techniques
14 11/28/30	LAB: Microbial Sensitivity Test @ (1:00pm – 2:35pm) (5:00pm – 6:35pm) LECTURE: STD’s (2:45pm-4:00pm) (6:45pm – 8:00pm)
15 12/05/07	***** LAB PRACTICAL 2 ***** Written and Unknowns

* Because of the Labor Day – holiday – Scheduled days and time for the Microscopy lab.

Requires students to return to lab in 24 hours to observe the results of the experiment.

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