

ACADEMIC SCHEDULE BIO 235 MICROBIOLOGY

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

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

FALL 2008

James E. Copeland

WEEK – DATE	*****LESSON(S)*****
1 09/01	Labor Day – NO Class
1 09/03	Orientation/The Scientific Method and Critical Thinking/Characteristic of Life/ Procaryotic and Eucaryotic Cells - Required reading – Chapters 1, 3 & 4
2 09/08	The Morphology of Bacterial – Required reading – Chapter 3
2 09/10	<u>Quiz 1</u> / The Anatomy of a Typical Bacteria Cell – Required reading – Chapter 3 Microbial Growth – Required reading – Chapters 5 & 6
3 09/15	Microbial Growth – Required reading – Chapters 5 & 6
3 09/17	<u>Quiz 2</u> / Microbial Growth / Microbial Metabolism–Required reading–Chapters 8 & 9
4 09/22	Microbial Metabolism – Required reading – Chapters 8 & 9
4 09/24 09/29	Microbial Metabolism – Required reading Chapters 8, 9 & 10 Last Day to retake Pre-test (12:35pm – 1:35pm)
5 09/29	<u>Quiz 3</u> / Microbial Metabolism cont'd. / Microbial Genetics – Required reading – Chapters 11, 12, 13, 14, 15
5 10/01	Microbial Genetics – Required reading – Chapters 11, 12, 13, 14, 15
6 10/06	***** UNIT TEST 1 *****
6 10/08	Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, and Handouts / (<u>Quiz 4</u> take home – Due 11am 10/13/2008)
7 10/13	Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, and Handouts
7 10/15	Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, & Handouts
8 10/20	<u>Quiz 5</u> / Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, & Handouts
8 10/22	The Characteristic and Taxonomy of Fungi – Required reading – Chapter 26
9 10/27	<u>Quiz 6</u> / The Characteristics and Taxonomy of Algae and Protozoans – Required reading Chapters 25
9 10/29	The Characteristic and Classification of Viruses – Required reading – Chapters 16, 17, 18

10	11/03	*****UNIT TEST 2*****
10	11/05	Control of Microbial Growth – Required reading – Chapter 7
11	11/10	Control of Microbial Growth – Required reading – Chapters 7 & 34
11	11/12	<i>Quiz 7</i> / Control of Microbial Growth cont'd – Required reading Chapters 7 & 34 / Nosocomial infections – Required reading – Pgs. 908-910 & Handouts
12	11/17	Nosocomial infections cont'd / Host-Microbe Interactions – Required reading – Chapters 30, 33, 35, 36 and Handouts
12	11/19	Host-Microbe Interactions – Required reading – Chapters 30, 33, 35, 36
13	11/24	<i>Quiz 8</i> /Defense against Disease – Required reading – Chapters 31,32,33, 35 & Handouts
13	11/26	Defense against Diseases–Required reading – Chapters 31, 32, 33, 35 & Handouts
14	12/01	Defense against Diseases cont'd/ Air-Borne Diseases – Required reading – Chapters 37, 38, 39 and Handouts
14	12/03	Air-Borne Diseases – Required reading – Chapters 37, 38, 39, and Handouts
15	12/08	Air-Borne Diseases cont'd/ Food and Water-Borne Diseases – Required reading – Chapters 37, 38, 39, 40 and Handouts
15	12/10	<i>Quiz 9</i> / STD's/Wounds/Skin Disorders/Diseases spread via Vectors – Required reading - Chapters 37, 38, 39, and Handouts
16	12/15	Diseases spread via Vectors – Required reading – Chapters 37,38, 39, and Handouts
16	12/17	*****UNIT TEST 3*****
17	12/22	<u>FINAL EXAM 11:00AM – 1:00PM</u>

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BIO 235 MICROBIOLOGY LAB SCHEDULE – ROOM 203

WEEK – DATE	***** LESSON(S) *****
1 09/03	LECTURE: Groups of Microorganisms and Classification 1 – 2.10pm / 5 – 6.10pm LAB: (2:20pm – 4:00pm) (6:20pm – 8:00pm) Laboratory Safety & Procedures Microscopes and Microscopy – Required reading – Chapter 2 in your text book
2 09/10	Care and Use of the Microscope
3 09/17	Morphological Identification & Classification of Various Microbial Groups
4 09/24	Microscopic Observation and Identification of Microbes Cont'd.
5 10/01	LAB: Isolation Techniques (1:00pm – 2:30pm) (5:00pm – 6:30pm) LECTURE: Taxonomy (2:40pm – 4:00pm) (6:40pm – 8:00pm)
6 10/08	Experiment in Bacterial Transformation * / Living Microbes
10/13	OPEN LAB – TO REVIEW PREPARED SLIDES (9:00AM – 12:00PM) Rm. 214
7 10/15	*** LAB PRACTICAL 1 / Video DNA Analysis / Practice Techniques
8 10/22	Experiment in DNA Analysis / LECTURE: Taxonomy of Bacteria if needed
9 10/29	Cultural Characteristics / Simple and Gram Staining Techniques
10 11/05	Gram Staining Technique
11 11/12	Gram Staining Technique
12 11/19	Microbial Metabolic Test – # (1:00pm – 2:30pm) (5:00pm – 6:30pm)
12 11/19	LECTURE: Defense against Diseases (2:40 – 4:00pm)(6:40pm – 8:00pm)
13 11/26	Acid-fast, Capsule and Endospore Staining Techniques
14 12/03	LAB: Microbial Sensitivity Test @ (1:00pm – 2:35pm) (5:00pm – 6:35pm) LECTURE: Air-Borne Diseases (2:45pm-4:00pm) (6:45pm – 8:00pm)
15 12/10	***** LAB PRACTICAL 2 ***** Written and Unknowns
16 12/17	Review Unit Test 3 – 3:00pm – 4:10pm & 5:00pm – 6:10pm

* Requires students to return to lab on 10/09/2008 to observe the results of the experiment.

Requires students to return to lab on 11/20/2008 to observe the results of the experiment.

@ Requires students to return to lab on 12/04/2008 to observe the results of the experiment.