

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 2010

James E. Copeland

| WEEK – DATE | *****LESSON(S)***** |
|--------------|---|
| 1 08/30 | The Scientific Method and Critical Thinking/Characteristic of Life/ Prokaryotic and Eukaryotic Cells - Required reading – Chapters 1, 3 & 4 |
| 1 09/01 | The Morphology of Bacteria – Required reading – Chapter 3 |
| 2 09/06 | Labor Day – No class |
| 2 09/08 | <u>Quiz 1</u> / The Anatomy of a Typical Bacteria Cell – Required reading – Chapter 3 Microbial Growth – Required reading – Chapters 6 & 7 |
| 3 09/13 | Microbial Growth – Required reading – Chapters 6 & 7 |
| 3 09/15 | <u>Quiz 2</u> Microbial Growth – Required reading – Chapters 6 & 7 |
| 4 09/20 | Microbial Growth cont'd / Microbial Metabolism–Required reading–Chapters 9,10,11 |
| 4 09/22 | Microbial Metabolism – Required reading – Chapters - 9, 10, 11 |
| 5 09/27 | <u>Quiz 3</u> Microbial Metabolism cont'd / Microbial Genetics – Required reading Chapters 12,13,14,14,16 |
| <i>09/29</i> | <i>Last Day to retake Pre-test (4pm – 5pm)</i> |
| 5 09/29 | Microbial Genetics – Required reading – Chapters 12, 13, 14, 15, 16 |
| 6 10/04 | ***** UNIT TEST 1 ***** |
| 6 10/06 | 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 10/11 | 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 10/13/2010) |
| 7 10/13 | Taxonomy of Bacteria – Required reading – Chapters 17,18,19,20,21,22,26, 27,28,29,30,40,41,42 and Handouts |
| 8 10/18 | <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 10/20 | The Characteristic and Taxonomy of Fungi – Required reading – Chapter 24 |

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| 9 | 10/25 | <u>Quiz 6</u> / The Characteristics and Taxonomy of Algae and Protozoans – Required reading Chapters 23 |
| 9 | 10/27 | The Characteristic and Classification of Viruses – Required reading – Chapters 5 & 25 |
| 10 | 11/01 | *****UNIT TEST 2***** |
| 10 | 11/03 | Control of Microbial Growth – Required reading – Chapter 8 |
| 11 | 11/08 | Control of Microbial Growth – Required reading – Chapters 7 & 34 |
| 11 | 11/10 | <u>Quiz 7</u> / Control of Microbial Growth cont'd / Nosocomial infections Required reading - Pgs. 884-886 Chapter 36 & Handouts |
| 12 | 11/15 | Nosocomial infections cont'd / Host-Microbe Interactions – Required reading – Chapters 31, 36 and Handouts |
| 12 | 11/17 | Host-Microbe Interactions – Required reading – Chapters 31, 36 and Handouts |
| 13 | 11/22 | <u>Quiz 8</u> /Defense against Disease – Required reading – Chapters 32, 33, 35 & Handouts |
| 13 | 11/24 | Defense against Diseases–Required reading – Chapters 32, 33, 35 & Handouts |
| 14 | 11/29 | Defense against Diseases cont'd/ Air-Borne Diseases – Required reading – Chapters 37, 38, 39 and Handouts |
| 14 | 12/01 | Air-Borne Diseases – Required reading – Chapters 37, 38, 39, and Handouts |
| 15 | 12/06 | <u>Quiz 9</u> Air-Borne Diseases cont'd/ Food and Water-Borne Diseases – Required reading – Chapters 37, 38, 39 and Handouts |
| 15 | 12/08 | Food & Water-Borne /Wounds& Abrasions/Skin Disorders/Vector Diseases Required reading - Chapters 37, 38, 39, and Handouts |
| 16 | 12/13 | *****UNIT TEST 3***** |
| 16 | 12/15 | Review Unit Test 3 – Review prep for final exam |
| 17 | 12/20 | <u>FINAL EXAM 11:00AM – 1:00PM</u> |

BIO 235 MICROBIOLOGY LAB SCHEDULE – ROOM A211

| WEEK – DATE | ***** LESSON(S) ***** |
|--------------------|---|
| 1 08/30-09/01 | 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 09/06/08* | Care and Use of the Microscope *8 th for Students in Monday's lab (Friday 9/10/2010 - 11:30am – 2:30pm) & (Monday 9/13/2010 – 8:00am – 11:00am) |
| 3 09/13/15 | Morphological Identification & Classification of Various Microbial Groups |
| 4 09/20/22 | Microscopic Observation and Identification of Microbes Cont'd. |
| 5 09/27/29 | LAB: Isolation Techniques # |
| 6 10/04/06 | Experiment in Bacterial Transformation # / Living Microbes |
| 7 10/11/13 | **** LAB PRACTICAL 1 / Video DNA Analysis / Practice Techniques |
| 8 10/18/20 | Experiment in DNA Analysis / LECTURE: Taxonomy of Bacteria if needed |
| 9 10/25/27 | Cultural Characteristics / Simple and Gram Staining Techniques |
| 10 11/01/03 | Gram Staining Technique |
| 11 11/08/10 | Gram Staining Technique |
| 12 11/15/17 | LAB: Microbial Metabolic Test# – Lecture-Control of Nosocomial infections |
| 13 11/22/24 | Acid-fast, Capsule and Endospore Staining Techniques |
| 14 11/29/12/01 | LAB: Microbial Sensitivity Test @ (1:00pm – 2:35pm) (5:00pm – 6:35pm) LECTURE: STD's (2:45pm-4:00pm) (6:45pm – 8:00pm) |
| 15 12/06/08 | ***** 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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