

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 2009

James E. Copeland

| WEEK – DATE | *****LESSON(S)***** |
|-------------|---|
| 1 08/26 | The Scientific Method and Critical Thinking/Characteristic of Life/ Prokaryotic and Eucaryotic Cells - Required reading – Chapters 1, 3 & 4 |
| 2 08/31 | The Morphology of Bacteria – Required reading – Chapter 3 |
| 2 09/02 | <u>Quiz 1</u> / The Anatomy of a Typical Bacteria Cell – Required reading – Chapter 3 Microbial Growth – Required reading – Chapters 5 & 6 |
| 3 09/07 | Labor Day – No class |
| 3 09/09 | Microbial Growth – Required reading – Chapters 5 & 6 |
| 4 09/14 | <u>Quiz 2</u> / Microbial Growth / Microbial Metabolism–Required reading–Chapters 8 & 9 |
| 4 09/16 | Microbial Metabolism – Required reading – Chapters 8 & 9 |
| 5 09/21 | Microbial Metabolism – Required reading Chapters 8, 9 & 10 |
| 5 09/23 | <i>Last Day to retake Pre-test (4pm – 5pm)</i> |
| 5 09/23 | <u>Quiz 3</u> / Microbial Metabolism cont'd. / Microbial Genetics – Required reading – Chapters 11, 12, 13, 14, 15 |
| 6 09/28 | Microbial Genetics – Required reading – Chapters 11, 12, 13, 14, 15 |
| 6 09/30 | ***** UNIT TEST 1 ***** |
| 7 10/05 | 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 10/07/2009) |
| 7 10/07 | Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, and Handouts |
| 8 10/12 | Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, & Handouts |
| 8 10/14 | <u>Quiz 5</u> / Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, & Handouts |

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| 9 | 10/19 | The Characteristic and Taxonomy of Fungi – Required reading – Chapter 26 |
| 9 | 10/21 | <u>Quiz 6</u> / The Characteristics and Taxonomy of Algae and Protozoans – Required reading Chapters 25 |
| 10 | 10/26 | The Characteristic and Classification of Viruses – Required reading – Chapters 16, 17, 18 |
| 10 | 10/28 | *****UNIT TEST 2***** |
| 11 | 11/02 | Control of Microbial Growth – Required reading – Chapter 7 |
| 11 | 11/04 | Control of Microbial Growth – Required reading – Chapters 7 & 34 |
| 12 | 11/09 | <u>Quiz 7</u> / Control of Microbial Growth cont'd – Required reading Chapters 7 & 34 / Nosocomial infections – Required reading – Pgs. 908-910 & Handouts |
| 12 | 11/11 | Nosocomial infections cont'd / Host-Microbe Interactions – Required reading – Chapters 30, 33, 35, 36 and Handouts |
| 13 | 11/16 | Host-Microbe Interactions – Required reading – Chapters 30, 33, 35, 36 |
| 13 | 11/18 | <u>Quiz 8</u> /Defense against Disease – Required reading – Chapters 31,32,33, 35 & Handouts |
| 14 | 11/23 | Defense against Diseases–Required reading – Chapters 31, 32, 33, 35 & Handouts |
| 14 | 11/25 | Defense against Diseases cont'd/ Air-Borne Diseases – Required reading – Chapters 37, 38, 39 and Handouts |
| 15 | 11/30 | Air-Borne Diseases – Required reading – Chapters 37, 38, 39, and Handouts |
| 15 | 12/02 | Air-Borne Diseases cont'd/ Food and Water-Borne Diseases – Required reading – Chapters 37, 38, 39, 40 and Handouts |
| 16 | 12/07 | <u>Quiz 9</u> / STD's/Wounds/Skin Disorders/Diseases spread via Vectors – Required reading - Chapters 37, 38, 39, and Handouts |
| 16 | 12/09 | Diseases spread via Vectors – Required reading – Chapters 37,38, 39, and Handouts |
| 17 | 12/14 | *****UNIT TEST 3***** |
| 17 | 12/16 | Review Unit Test 3 |
| 17 | 12/18 | <u>FINAL EXAM 11:00AM – 1:00PM</u> |

BIO 235 MICROBIOLOGY LAB SCHEDULE – ROOM A211

| WEEK – DATE | ***** LESSON(S) ***** |
|-------------|--|
| 1 | 08/26 Pick up LAB PACKS and Make Lab Manual – All Labs / Lecture |
| 2 | 08/31-09/02 LAB: - Laboratory Safety & Procedures Microscopes and Microscopy – Required reading – Chapter 2 in your text book |
| 3 | 09/09/11* Care and Use of the Microscope * 11 th for Students in Monday's lab 11:30am – 2:30pm |
| 4 | 09/14/16 Morphological Identification & Classification of Various Microbial Groups |
| 5 | 09/21/23 Microscopic Observation and Identification of Microbes Cont'd. |
| 6 | 09/28/30 LAB: Isolation Techniques * |
| 7 | 10/05/07 Experiment in Bacterial Transformation * / Living Microbes |
| 8 | 10/12/14 ***** <i>LAB PRACTICAL 1</i> / Video DNA Analysis / Practice Techniques |
| 9 | 10/19/21 Experiment in DNA Analysis / LECTURE: Taxonomy of Fungi if needed |
| 10 | 10/26/28 Cultural Characteristics / Simple and Gram Staining Techniques |
| 11 | 11/02/04 Gram Staining Technique |
| 12 | 11/09/11 Gram Staining Technique |
| 13 | 11/16/18 LAB: Microbial Metabolic Test [#] – <i>Lecture-Host Microbe Interaction if needed</i> |
| 14 | 11/23/25 Acid-fast, Capsule and Endospore Staining Techniques |
| 15 | 11/30/12/02 LAB: Microbial Sensitivity Test @ (1:00pm – 2:35pm) (5:00pm – 6:35pm) LECTURE: Air-Borne Diseases (2:45pm-4:00pm) (6:45pm – 8:00pm) |
| 16 | 12/07/09 ***** LAB PRACTICAL 2 ***** Written and Unknowns |

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

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