

Academic Schedule BIO 235 Microbiology

Lecture: 01:00pm - 04:30pm Monday/Wednesday

Lab: 01:00pm – 04:00pm Tuesday/Thursday

Summer 2010

James E. Copeland

Week - Dates	***** Lessons *****
1 / 6/07	The Scientific Method/The Characteristic of Life/Prokaryotic and Cells/Groups of Microorganisms and the Characteristic for Classifying Microbes - Required reading - Chapters - 1,3 & 4 / Morphology of Bacteria – Chapter 3
1 / 6/08	1:00pm to 2:00pm - Lecture Morphology of Bacteria cont'd./ Break 2:00pm – 2:15pm LAB – Laboratory safety & procedures and the Microscope–Required reading Chapter 2
1 / 6/09	Quiz 1 / Microbial Growth – Required reading Chapters 5&6
1 / 6/10	LAB – (The care and the use of the Microscope / Microbes and Microscopy) <i>Retake – Competency exam (4:10pm – 5:10pm) Rm. A211</i>
2 / 6/14	Quiz 2 / Microbial growth cont'd. / Microbial Metabolism – Required reading – Chapters 8, 9 & 10
2 / 6/15	LAB – (Morphology of Bacteria & Morphology and Identification of Other Microbes <i>Last day to retake- Competency exam (12:00pm – 1:00pm) Rm. A211</i>
2 / 6/16	Quiz 3 / Microbial Metabolism cont'd. / Microbial Genetics – Required reading – Chapters 11,12,13,14 & 15
2 / 6/17	LAB – (Identification of Microbes cont'd.) -
3 / 6/21	UNIT TEST 1 – (1:00pm – 2:25pm) / Lecture: Taxonomy / Bacteria - Required reading - Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, and handouts (2:45pm – 4:30pm)
3 / 6/22	LAB – (Isolation Techniques / Morphological Identification of Microbes)
3 / 6/23	Taxonomy of Bacteria – Required reading – Chapters 19, 20, 21, 22, 23, 24, 27, 28, 29, 41, and handouts / (Quiz 4 take home due 1:00pm 6/28/2010)
3 / 6/24	@ LAB – (An Experiment in Bacterial Transformation)@ Lecture – 2:30pm – 4:00pm (Taxonomy of Bacteria cont'd)
4 / 6/28	Quiz 5 / Bacteria / Fungi – Required reading – Chapter 26 / Algae – Chapter 25
4 / 6/29	LAB – (Lab practical 1 – Video (DNA Restriction Analysis)
4 / 6/30	Quiz 6 / Algae cont'd / Protozoans - Required reading Chapter 25 Viruses – Required reading – Chapters 16, 17, 18
4 / 7/01	LAB – DNA Restriction Analysis / Lecture: Viruses cont'd.
5 / 7/05	Holiday – Class not in Session
5 / 7/06	UNIT TEST 2 (1:00pm – 2:25pm) (2:40pm – 4:00pm) Lecture: Control of Microbes. – Required reading - Chapters – 7, 34 - ROOM TBA
5 / 7/07	Control of Microbes cont'd / Nosocomial Infection – pgs 908 – 910 and handouts
5 / 7/08	@ LAB – Microbial Sensitivity Test (1:00pm – 2:25pm / Lecture: 2:35pm – 4:00pm Nosocomial infection cont'd. – Host Microbe Interaction – Required reading Chapters 30,33,35,36 and Handouts

6	/	7/12	Quiz 7 / Nosocomial Infections – Required reading pgs 908-910 & Handouts / Host – Microbe Interaction – Required reading – Chapters 30,33,35,36 and Handouts
6	/	7/13	LAB – Microbial Metabolic Test (1:00pm – 2:20pm - <u>Lecture: (2:30pm – 4:00pm)</u> Defenses Against Diseases – Required reading – Chapters 31,32,33,35 & Handouts
6	/	7/14	Defenses against Diseases – Required reading – Chapters 31,32,33,35 and Handouts Air-Borne Disease – Required reading – Chapters 37,38,39 & Handouts
6	/	7/15	LAB - Colony Characteristics / Staining Techniques
7	/	7/19	Air-Borne Diseases – Required reading – Chapters 37, 38, 39 and handouts.
7	/	7/20	LAB – Gram Staining Techniques
7	/	7/21	Quiz 8 / Air-Borne Diseases – Food-Water-Borne Diseases – Required reading – Chapters 38, 39, 40 and Handouts.
7	/	7/22	LAB – Gram Staining Technique
8	/	7/26	Quiz 9/Food & Water Borne Diseases / STD's / Disease of Wounds & Abrasion – Direct Contact and Disease Acquired Via Vectors / Prions - Required reading – Chapters 37, 38, 39, 40 and Handouts
8	/	7/27	LAB – Acid-Fast; Capsule & Endospore Staining Techniques
8	/	7/28	UNIT TEST 3 (1:00pm – 2:40pm) (3:00pm – 3:50pm) review procedure for lab test 2
8	/	7/29	LAB – Practical 2 Written and Unknowns – Review Unit Test 3 and procedure for the final exam – 4:00pm – 5:30pm
9	/	8/02	<u>FINAL EXAM 1:00PM – 3:00PM</u>

@ Students will be required to return to lab Friday 6/25 and 7/09 at 2:30pm to observe and record the results.