

MCB 3023L LABORATORY SYLLABUS SPRING 2009

DATE	TOPIC	EXERCISE #
1-06	Culture medium preparation: Microorganisms around us (no quiz)	1,2
1-08	Aseptic technique	3
1-13	Cultural characteristics	4
1-15	Enumeration of bacterial populations	5
1-20	Simple stains; Wet mount; Use of microscope	6,7,8
1-22	Gram stain; Other differential stains	9,10
1-27	Selective and differential media	11
1-29	Temperature & growth; Buffers; Oxygen requirements	12,13,14
2-03	Bacterial growth curve	15
2-05	Extracellular enzymes; Carbohydrate fermentation	16,17
2-10	IMViC tests; Hydrogen sulfide; Urease	18,19,20
2-12	Nitrate reductase; Catalase; Triple-Sugar Iron; Litmus milk	21,22,23,24
2-17	Inoculation of Unknowns	16-25
2-19	Identification of Unknowns [growth curve report due]	16-25
2-24	MIDTERM PRACTICAL EXAM	1-25
2-26	Conjugation; Transformation; Plasmid extraction; Restriction enzymes	26,27,28,29
3-03	Gel electrophoresis; Analysis of Food; Sauerkraut; Wine	30,31,32,33
3-05	Protozoa; Fungi	34,35
3-10	SPRING BREAK	--
3-12	SPRING BREAK	--
3-17	Standard Analysis of Water; Membrane filtration; Plaque assay [unknown report due]	36,37,38
3-19	Physical control of microbial growth	39
3-24	Chemical control of microbial growth	40
3-26	Normal flora; Oral flora	41,42
3-31	<i>Staphylococcus</i>	43
4-02	<i>Streptococcus</i> ; Other pathogenic bacteria	44,45
4-07	Use of Enterotube; Use of Bactercult tube; Ouchterlony plate; immune system film	46,47,48
4-09	Nitrogen cycle; Environmental studies	49,50
4-14	observe results; evaluations; answer questions about final (no quiz)	--
4-16	FINAL COMPREHENSIVE WRITTEN EXAM	1-50