

MCB 2010L MICROBIOLOGY LABORATORY SCHEDULE Spring 2018 (2017/18 Term II)

TEXT: **MICROBIOLOGY LABORATORY MANUAL 3rd Edition; Obenauf & Finazzo**

DATE	Lab Period	LABORATORY PROCEDURES (exercises)	DRAW OR RECORD RESULTS OF	LAB REPORTS DUE
M-T 1/8 – 1/9	1	Lab Overview & Lab Safety Rules 1* Basic Techniques Use of the Microscope 5 The Microbial World: Protozoans	Microscope Protozoans	
W-R 1/10 – 1/11	2	4 The Microbial World: Microbial Phototrophs 6 The Microbial World: Fungi	Phototrophs Fungi	Microscope Protozoans
M-T 1/15 – 1/16		Micro Lab Closed Martin Luther King		
W-R 1/17 – 1/18	3	2 Basic Techniques: Aseptic Techniques 7 The Microbial World: Motility: Hanging Drop	Hanging Drop	Phototrophs Fungi
M-T 1/22 – 1/23	4	<input type="checkbox"/> Get Slide Boxes (one per team of 2 – keep in drawer) 8 Staining: Simple Staining & Smear Preparation 9 Staining: Negative Stain	Aseptic Simple Stain Negative Stain	Hanging Drop
W-R 1/24 – 1/25	5	10 Staining: Capsule Stain 11 Staining: Gram Stain	Capsule Stain Gram Stain	Aseptic Simple Stain Negative Stain
M-T 1/29 – 1/30	6	12 Staining: Acid Fast Stain 13 Staining: Endospore Stain	Acid Fast Endospore	Capsule Stain Gram Stain
W-R 1/31 – 2/1	7	*WRITTEN EXAM 1* <i>(on lab periods 1-6)</i> 14 Media: Blood Agar		Acid Fast Endospore
M-T 2/5 – 2/6	8	15 Media: Mannitol Salt Agar (MSA) 16 Media: Eosin Methylene Blue (EMB) 17 Media: MacConkey Agar	Blood Agar	
W-R 2/7 – 2/8	9	18 Media: Evaluation of Media 20 Growth: Osmotic Pressure & Growth	MSA, EMB, MacConkey	Blood Agar
M-T 2/12 – 2/13	10	19 Growth: Standard Plate Count 21 Growth: Aerotolerance	Eval. Of Media Osmotic Pressure	MSA, EMB, MacConkey
W-R 2/14 – 2/15	11	25 Control of Growth: Antimicrobial Susceptibility 24 Control of Growth: UV Light	Standard Plate Count Aerotolerance	Eval Media Osmotic Pressure
M-T 2/19 – 2/20	12	27 Diagnostic Genetics: DNA Fingerprinting 28 Applied Genetics: Bacterial Transformation	Susceptibility UV Light	Standard Plate Count Aerotolerance
W-R 2/21 – 2/22	13	<input type="checkbox"/> Review for Midterm Practical Exam <i>Students may attend review sessions in other lab times as guests.</i>	DNA Fingerprinting Transformation	Susceptibility UV Light
M-T 2/26 – 2/27	14	⇒ MIDTERM PRACTICAL EXAM <i>(on lab periods 1 – 12)</i> ⇒ MIDTERM WRITTEN EXAM <i>(on lab periods 7 – 12)</i>		DNA Fingerprinting Transformation

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W-R 2/28 – 3/1	15	29 Microbes & Disease: Parasitic Protozoans 31 Microbes & Disease: Vectors	Parasitic Protists Vectors	
3/5 – 3/9		Spring Break		
M-T 3/12 – 3/13	16	3 Basic Techniques: Isolation Streak Plate 30 Microbes & Disease: Parasitic Worms	Parasitic Worms	Parasitic Protists Vectors
W-R 3/14 – 3/15	17	32 Diagnostic Immunology: Immunoprecipitation 33 Diagnostic Immunology: Passive Agglutination 47 Bacterial Unknowns	Isolation Streak Plate Passive Agglutination	Parasitic Worms
M-T 3/19 – 3/20	18	34 Multisystems: Enteropluri 35 Environmental Microbiology: Soil Microbes	Immunoprecipitation Unknown	Isolation Streak Plate Passive Agglutination
W-R 3/21 – 3/22	19	46 “Known” bacteria for Biochemical testing	Enteropluri	Immunoprecipitation
M-T 3/26 – 3/27	20	40 Biochemical Testing: Phenol Red (Sugar) Broth 41 Biochemical Testing: Triple Sugar Iron Agar (TSI)	Soil	Enteropluri
W-R 3/28 – 3/29	21	Written Exam 3 <i>(on lab periods 15-20)</i> 22 Oxygen Metabolism: Catalase Test 23 Oxygen Metabolism: Oxidase Test	Phenol Red TSI Catalase Oxidase	Soil
M-T 4/2 – 4/3	22	IMViC Testing 43 Biochemical Testing: SIM Medium 43 Biochemical Testing: MR and VP tests 43 Biochemical Testing: Simmon’s Citrate Agar		Phenol Red TSI Catalase Oxidase
W-R 4/4 – 4/5	23	42 Biochemical Testing: Litmus Milk 37 Biochemical / Hydrolytic: Gelatinase	IMViC	
M-T 4/9 – 4/10	24	36 Biochemical / Hydrolytic: DNase Test 38 Biochemical / Hydrolytic: Starch Test 39 Biochemical / Hydrolytic: Casease Test	Litmus Gelatinase	IMViC
W-R 4/11 – 4/12	25	44 Biochemical Testing: Urease Test 45 Biochemical Testing: Nitrate Reduction	DNase, Starch, Casease	Litmus Gelatinase
M-T 4/16 – 4/17		Complete unknown organism identification. Last day to inoculate any tests.	Urease Nitrate	DNase, Starch, Casease
W-R 4/18 – 4/19		<input type="checkbox"/> Review for Final Practical Exam <i>Students may attend review sessions in other lab times as guests.</i>		Urease, Nitrate Unknown
M-T 4/23 – 4/24		⇒ FINAL PRACTICAL EXAM <i>(on lab periods 15 – 25)</i> ⇒ FINAL WRITEN EXAM <i>(on lab periods 21 – 25)</i>		

*if you are using the 2nd edition of the lab manual, the exercise numbers will be different – use the exercise titles