

MCB 2010L MICROBIOLOGY LABORATORY SCHEDULE Summer 2018 (20183 Session 2)
TEXT: MICROBIOLOGY LABORATORY MANUAL 3rd Edition; Obenauf & Finazzo

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

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T 6/5	13	29 Microbes & Disease: Parasitic Protozoans 30 Microbes & Disease: Parasitic Worms 31 Microbes & Disease: Vectors 3 Basic Techniques: Isolation Streak Plate	Parasitic Protists Parasitic Worms Vectors	
W 6/6	14	32 Diagnostic Immunology: Immunoprecipitation 33 Diagnostic Immunology: Passive Agglutination 47 Bacterial Unknowns	Isolation Streak Plate Passive Agglutination	Parasitic Protists Parasitic Worms Vectors
R 6/7	15	34 Enteropluri 35 Environmental Microbiology: Soil Microbes 46 "Known" bacteria for Biochemical testing	Immunoprecipitation	Isolation Streak Plate Passive Agglutination
M 6/11	16	40 Biochemical Testing: Phenol Red (Sugar) Broth 41 Biochemical Testing: Triple Sugar Iron Agar (TSI)	Enteropluri	
T 6/12	17	Written Exam 3 <i>(on lab periods 13-16)</i> 22 Oxygen Metabolism: Catalase Test 23 Oxygen Metabolism: Oxidase Test 42 Biochemical Testing: Litmus Milk	Soil Phenol Red TSI Oxidase Catalase	Enteropluri
W 6/13	18	IMViC Testing 43 Biochemical Testing: SIM Medium 43 Biochemical Testing: MR and VP tests 43 Biochemical Testing: Simmon's Citrate Agar		Soil Oxidase Catalase Phenol Red TSI
R 6/14	19	36 Biochemical / Hydrolytic: DNase Test 38 Biochemical / Hydrolytic: Starch Test 39 Biochemical / Hydrolytic: Casease Test 37 Biochemical / Hydrolytic: Gelatinase	IMViC Litmus	
M 6/18	20	44 Biochemical Testing: Urease Test 45 Biochemical Testing: Nitrate Reduction Last day to inoculate any test on your unknown.	DNase Starch Casease Gelatinase	IMViC Litmus
T 6/19	21	Review for Final Practical Exam <i>students may attend review sessions in other lab times as guests</i>	Urease Nitrate	DNase Starch Casease Gelatinase
W 6/20		Lab Closed for Final Exam Setup		
R 6/21	22	⇒ FINAL PRACTICAL EXAM <i>(on lab periods 13 – 20)</i> ⇒ FINAL WRITEN EXAM <i>(on lab periods 17 – 20)</i>		Urease Nitrate Unknown Project Report Due