

MCB 2010L MICROBIOLOGY LABORATORY SCHEDULE Fall 2018 (2018/19 Term I)
TEXT: MICROBIOLOGY LABORATORY MANUAL 3rd Edition; Obenauf & Finazzo

DATE	Lab Period	LABORATORY PROCEDURES (exercises)	DRAW OR RECORD RESULTS OF	LAB REPORTS DUE
M-T 8/20-8/21	1	Lab Overview & Lab Safety Rules 1* Basic Techniques Use of the Microscope 5 Microorganisms: Protozoans	Microscope Protozoans	
W-R 8/22-8/23	2	4 Microorganisms: Microbial Phototrophs 6 Microorganisms: Fungi	Phototrophs Fungi	Microscope Protozoans
M-T 8/27-8/28	3	2 Basic Techniques: Aseptic Techniques 7 Microorganisms: Motility: Hanging Drop	Hanging Drop	Phototrophs Fungi
W-R 8/29-8/30	4	☞ 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
M-T 9/3-9/4		Micro Lab Closed Labor Day Holiday		
W-R 9/5-9/6	5	10 Staining: Capsule Stain 11 Staining: Gram Stain	Capsule Stain Gram Stain	Aseptic Simple Stain Negative Stain
M-T 9/10-9/11	6	12 Staining: Acid Fast Stain 13 Staining: Endospore Stain	Acid Fast Endospore	Capsule Stain Gram Stain
W-R 9/12-9/13	7	*WRITTEN EXAM 1* <i>(on lab periods 1-6)</i> 14 Media & Diagnosis: Blood Agar		Acid Fast Endospore
M-T 9/17-9/18	8	15 Media & Diagnosis: Mannitol Salt Agar (MSA) 16 Media & Diagnosis: Eosin Methylene Blue (EMB) 17 Media & Diagnosis: MacConkey Agar 34 Diagnosing Infections: Rapid Immunoassay (Rapid Strep Test)	Blood Agar	
W-R 9/19-9/20	9	18 Growth: Chemical Content of Media 19 Growth: Osmotic Pressure & Growth	MSA, EMB, MacConkey, Rapid Immunoassay	Blood Agar
M-T 9/24-9/25	10	20 Growth Oxygen and Growth (Aerotolerance) 23 Growth: Plate Count	Chemical Content of Media, Osmotic Pressure	MSA, EMB, MacConkey, Rapid Immunoassay
W-R 9/26-9/27	11	24 Treatment & Control: UV Light 25 Treatment & Control: Antimicrobial Susceptibility	Aerotolerance Plate Count	Chemical Content of Media, Osmotic Pressure
M-T 10/1-10/2	12	27 Analysis of DNA: Electrophoresis 28 Bacterial Transformation	UV Light Susceptibility	Aerotolerance Plate Count
W-R 10/3-10/4	13	Review for Midterm Practical Exam <i>Students may attend review sessions in other lab times as guests.</i>	Electrophoresis Transformation	UV Light Susceptibility
M-T 10/8-10/9	14	☞ MIDTERM PRACTICAL EXAM <i>(on lab periods 1 – 12)</i> ☞ MIDTERM WRITTEN EXAM <i>(on lab periods 7 – 12)</i>		Electrophoresis Transformation

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W-R 10/10-10/11	15	29 Infectious Diseases: Parasitic Protozoans 31 Infectious Diseases: Vectors	Parasitic Protists Vectors	
M-T 10/15-10/16	16	3 Basic Techniques: Isolation Streak Plate 30 Infectious Diseases: Parasitic Worms	Parasitic Worms	Parasitic Protists Vectors
W-R 10/17-10/18	17	32 Diagnosing Infections: Immunoprecipitation 33 Diagnosing Infections: Passive Agglutination 49 Bacterial Unknowns	Isolation Streak Plate Passive Agglutination	Parasitic Worms
M-T 10/22-10/23	18	36 Diagnosing Infections: Enteropluri Test 37 Environmental Microbiology: Soil Microbiology	Immunoprecipitation Unknown	Isolation Streak Plate Agglutination
W-R 10/24-10/25	19	48 "Known" bacteria for Biochemical testing	Enteropluri	Immunoprecipitation
M-T 10/29-10/30	20	42 Biochemical Testing: Phenol Red (Sugar) Broth 43 Biochemical Testing: Triple Sugar Iron Agar (TSI)	Soil	Enteropluri
W-R 10/31-11/1	21	Written Exam 3 <i>(on lab periods 15-20)</i> 21 Oxygen and Growth: Catalase Test 22 Oxidase Test	Phenol Red, TSI Catalase Oxidase	Soil
M-T 11/5-11/6	22	IMViC Testing 45 Biochemical Testing: SIM Medium 45 Biochemical Testing: MR and VP tests 45 Biochemical Testing: Simmon's Citrate Agar		Phenol Red, TSI Catalase Oxidase
W-R 11/7-11/8	23	44 Biochemical Testing: Litmus Milk 39 Hydrolytic Enzymes: Gelatin Hydrolysis	IMViC	
M-T 11/12-11/13		Veteran's Day Lab Closed		
W-R 11/14-11/15	24	38 Hydrolytic Enzymes: DNase Test 40 Hydrolytic Enzymes: Starch Hydrolysis 41 Hydrolytic Enzymes: Casein Hydrolysis	Litmus Gelatin Hydrolysis	IMViC
M-T 11/19-11/20	25	46 Biochemical Testing: Urease Test 47 Biochemical Testing: Nitrate Reduction	DNase, Starch, Casease	Litmus Gelatin Hydrolysis
W-R 11/21-11/22		Thanksgiving Break Lab Closed		
M-T 11/26-11/27	26	Complete unknown organism identification. Last day to inoculate any tests.	Urease Nitrate	DNase, Starch, Casease
W-R 11/28-11/29		Review for Final Practical Exam <i>Students may attend review sessions in other lab times as guests</i>		Urease, Nitrate Unknown
M-T 12/3 – 12/4		⇒ 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