

MCB2010L Microbiology Lab Schedule Summer 2022 Session 3

Text: Microbiology Fundamentals A Clinical Approach Laboratory Manual 3rd Edition

Lab Period	Date	Laboratory Procedures (Exercises)	Record Results of:
1	Wed. 6/29	Introduction to Lab: Syllabus and Safety Ex. 1: Use of the Microscope Ex. 5: Protozoa	Ex. 1: Use of the Microscope Ex. 5: Protozoa
2	Thurs. 6/30	Ex. 4: Microbial Phototrophs – Algae and Cyanobacteria Ex. 6: Fungi	Ex. 4: Microbial Phototrophs – Algae and Cyanobacteria Ex. 6: Fungi
	Mon. 7/4	Lab Closed: Independence Day	
3	Tues. 7/5	Ex. 2: Aseptic Techniques Ex. 7: Bacterial Motility: Hanging Drop Method	Ex. 7: Bacterial Motility: Hanging Drop Method
4	Wed. 7/6	Ex. 8: Simple Staining and Smear Preparation Ex. 9: Negative Staining Ex. 10: Capsule Stain	Ex. 2: Aseptic Techniques Ex. 8: Simple Staining and Smear Preparation Ex. 9: Negative Staining Ex. 10: Capsule Stain
5	Thurs. 7/7	Ex. 11: Gram Stain Ex. 12: Acid Fast Stain Ex. 13: Endospore Stain	Ex. 11: Gram Stain Ex. 12: Acid Fast Stain Ex. 13: Endospore Stain
6	Mon. 7/11	Written Exam 1 (Lab Periods 1-5) Ex. 14: Blood Agar Ex. 15: Mannitol Salt Agar Ex. 16: Eosin Methylene Blue Agar Ex. 17: MacConkey Agar	
7	Tues. 7/12	Ex. 34: Rapid Immunoassay Ex. 32: Gel Immunoprecipitation Ex. 33: Passive Agglutination	Ex. 14: Blood Agar Ex. 15: Mannitol Salt Agar Ex. 16: Eosin Methylene Blue Agar Ex. 17: MacConkey Agar Ex. 34: Rapid Immunoassay Ex. 33: Passive Agglutination

8	Wed. 7/13	Ex. 20: Oxygen and Growth - Aerotolerance Ex. 23: Plate Count Ex. 18: Chemical Content of Media	Ex. 32: Gel Immunoprecipitation
9	Thurs. 7/14	Ex. 19: Osmotic Pressure & Growth Ex. 24: Killing by UV Light Ex. 25: Antimicrobial Susceptibility – Kirby Bauer Method	Ex. 20: Oxygen and Growth - Aerotolerance Ex. 23: Plate Count Ex. 18: Chemical Content of Media
10	Mon. 7/18	Ex. 27: DNA Electrophoresis Ex. 28: DNA Transformation	Ex. 19: Osmotic Pressure & Growth Ex. 24: Killing by UV Light Ex. 25: Antimicrobial Susceptibility – Kirby Bauer Method
11	Tues. 7/19	Review for Midterm Exam	Ex. 27: DNA Electrophoresis Ex. 28: DNA Transformation
	Wed. 7/20	Lab Closed: Exam setup	
12	Thurs. 7/21	Midterm Practical (Periods 1-10) & Written Exam 2 (Periods 6-10)	
13	Mon. 7/25	Ex. 29: Parasitic Protozoans Ex. 30: Parasitic Worms Ex. 31: Transmission – Vectors of Disease	Ex. 29: Parasitic Protozoans Ex. 30: Parasitic Worms Ex. 31: Transmission – Vectors of Disease
14	Tues. 7/26	Ex. 36: EnteroPluri Ex. 3: Isolation Streak Plate Ex. 49: Identification of Unknown Bacteria	
15	Wed. 7/27	Ex. 47: Nitrate Reduction Work on Unknown Project	Ex. 36: EnteroPluri Ex. 3: Isolation Streak Plate
16	Thurs. 7/28	Ex. 42: Phenol Red Sugar Broth Ex. 43: Triple-Sugar Iron Agar Work on Unknown Project	Ex. 47: Nitrate Reduction

17	Mon. 8/1	Written Exam 3 (Lab Periods 13 - 16) Ex. 21: Oxygen and Growth – Catalase Ex. 22: Oxidase Ex. 44: Litmus Milk Work on Unknown Project	Ex. 42: Phenol Red Sugar Broth Ex. 43: Triple-Sugar Iron Agar Ex. 21: Oxygen and Growth – Catalase Ex. 22: Oxidase
18	Tues. 8/2	Ex. 45: IMViC Testing (SIM, MR-VP, Simmon's Citrate) Work on Unknown Project	
19	Wed. 8/3	Ex. 39: Gelatin Hydrolysis Ex. 40: Starch Hydrolysis Ex. 41: Casein Hydrolysis Ex. 46: Urease Test Last day to inoculate any tests on Unknown; Clean incubator and refrigerator	Ex. 45: IMViC Testing (SIM, MR-VP, Simmon's Citrate)
20	Thurs. 8/4	Review for Final Exam	Ex. 39: Gelatin Hydrolysis Ex. 40: Starch Hydrolysis Ex. 41: Casein Hydrolysis Ex. 44: Litmus Milk Ex. 46: Urease Test
21	Mon. 8/8	Final Practical (Periods 13-20) & Written Exam 4 (Periods 17-20)	