

MCB2010L Microbiology Lab Schedule Spring 2022 Session 3

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

Lab Period	Date	Laboratory Procedures (Exercises)	Record Results of:
1	M/T 1/24 – 1/25	Introduction to Lab and Course Materials Ex. 1: Use of the Microscope- 3 forms bacteria	Ex. 1
2	W/R 1/26 – 1/27	Ex. 4: Microbial Phototrophs Ex. 5: Protozoa Ex. 6: Fungi	Ex. 4, 5, 6
3	M/T 1/31 – 2/1	Ex. 2: Aseptic Technique Ex 7: Hanging Drop Demo	Ex. 7
4	W/R 2/2 – 2/3	Ex. 8: Simple Staining and Smear Preparation Ex. 9: Negative Staining Ex 10: Capsule Stain	Ex. 2, 8, 9, 10
5	M/T 2/7 – 2/8	Ex. 11: Gram Stain Ex. 12: Acid Fast Stain Ex. 13: Endospore Stain	Ex. 11, 12, 13
6	W/R 2/9 – 2/10	Ex. 14: Blood Agar Review microscope slides	
7	M/T 2/14 – 2/15	Written Exam 1 (PERIODS 1-6) Ex. 34: Rapid Immunoassay Ex. 15: Mannitol Salt Agar Ex. 16: Eosin Methylene Blue Agar Ex. 17: MacConkey Agar	Ex. 14 and 34
8	W/R 2/16 – 2/17	Ex. 18: Chemical Content of Media Ex. 19: Osmotic Pressure & Growth Ex. 23: Plate Count	Ex. 15, 16, 17
9	M/T 2/21 – 2/22	Ex. 20: Oxygen and Growth – Aerotolerance Ex. 32: Gel Immunoprecipitation Ex. 33: Passive Agglutination	Ex. 18, 19, 23, 33
10	W/R 2/23 – 2/24	Ex. 27: DNA Electrophoresis Ex. 28: DNA Transformation	Ex. 20 and 32
	2/28 – 3/6	SPRING BREAK	
11	M/T 3/7 – 3/8	Ex. 24: Killing by UV Light Ex. 25: Antimicrobial Susceptibility – Kirby Bauer Method	Ex. 27 and 28
12	W/R 3/9 – 3/10	Review for Midterm Exam (Students may attend other lab sections)	Ex. 24 and 25
13	M/T 3/14 – 3/15	Midterm Practical (Periods 1-11) & Written Exam 2 (Periods 7-11)	

14	W/R 3/16 – 3/17	Ex. 29: Parasitic Protozoans Ex. 30: Parasitic Worms Ex. 31: Vectors of Disease Ex. 3: Isolation Streak Plate	Ex. 29, 30, 31
15	M/T 3/21 – 3/22	Ex. 36: Enteropluri Ex. 47: Nitrate Reduction Ex. 49: Unknown Project	Ex. 3
16	W/R 3/23 – 3/24	Ex. 48: Knowns Work on Unknown Project	Ex. 36, 47, 49
17	M/T 3/28 – 3/29	Ex. 42: Phenol Red Sugar Broth Ex. 43: Triple-Sugar Iron Agar	Ex. 37, 49
18	W/R 3/30 – 3/31	Written Exam 3 (Lab Periods 14 - 17) Ex. 21: Catalase Ex. 22: Oxidase	Ex. 21, 22, 42, 43, 49
19	M/T 4/4 – 4/5	Ex. 44: Litmus Milk Ex. 45: IMViC Testing (SIM, MR-VP, Simmon's Citrate)	Ex. 49
20	W/R 4/6 – 4/7	Ex. 39: Gelatin Hydrolysis Ex. 40: Starch Hydrolysis Ex. 41: Casein Hydrolysis	Ex. 45, 49
21	M/T 4/11 – 4/12	Ex. 46: Urease Test Clean up lab – last day to run any test on your unknown	Ex. 39, 40, 41, 44, 49
22	W/R 4/13 – 4/14	Review for Final Exam (Students may attend other lab sections)	Ex. 46, 49
23	M/T 4/18 – 4/19	Final Practical (Periods 14-21) & Written Exam 4 (Periods 18-21)	