

MCB2010L Microbiology Lab Schedule Fall 2022 Session 3

Text: Microbiology Fundamentals: A Clinical Approach Laboratory Manual 4th Edition

Lab Period	Date	Laboratory Procedures (Exercises)	Record Results of:
1	W/R 9/7 – 9/8	Introduction to Lab and Course Materials Ex. 1: Use of the Microscope- 3 forms bacteria	Ex. 1
2	M/T 9/12 – 9/13	Ex. 4: Microbial Phototrophs Ex. 5: Protozoa Ex. 6: Fungi	Ex. 4, 5, 6
3	W/R 9/14 – 9/15	Ex. 2: Aseptic Technique Ex 7: Hanging Drop Demo	Ex. 7
4	M/T 9/19 – 9/20	Ex. 8: Simple Staining and Smear Preparation Ex. 9: Negative Staining Ex 10: Capsule Stain	Ex. 2, 8, 9, 10
5	W/R 9/21 – 9/22	Ex. 11: Gram Stain Ex. 12: Acid Fast Stain Ex. 13: Endospore Stain Ex. 14: Blood Agar Review microscope slides	Ex. 11, 12, 13
6	M/T 9/26 – 9/27	Written Exam 1 (PERIODS 1-5) Ex. 34: Rapid Immunoassay Ex. 15: Mannitol Salt Agar Ex. 16: Eosin Methylene Blue Agar Ex. 17: MacConkey Agar	Ex. 14 and 34
7	W/R 9/28 – 9/29 Canceled	Ex. 18: Chemical Content of Media Ex. 19: Osmotic Pressure & Growth Ex. 23: Plate Count	Ex. 15, 16, 17
7	M/T 10/3 – 10/4	Ex. 18: Chemical Content of Media Ex. 19: Osmotic Pressure & Growth Ex. 20: Oxygen and Growth – Aerotolerance	Ex. 15, 16, 17
9	W/R 10/5 – 10/6	Ex. 23: Plate Count Ex. 27: DNA Electrophoresis Ex. 28: DNA Transformation	Ex. 20 and 32
10	M/T 10/10 – 10/11	Ex. 24: Killing by UV Light Ex. 25: Antimicrobial Susceptibility – Kirby Bauer Method	Ex. 27 and 28
11	W/R 10/12 – 10/13	Review for Midterm Exam (Students may attend other lab sections) Ex. 32: Gel Immunoprecipitation	Ex. 24 and 25

12	M/T 10/17 – 10/18	Midterm Practical (Periods 1-10) & Written Exam 2 (Periods 6-10)	
13	W/R 10/19 – 10/20	Ex. 29: Parasitic Protozoans Ex. 30: Parasitic Worms Ex. 31: Vectors of Disease Ex. 3: Isolation Streak Plate	Ex. 29, 30, 31
14	M/T 10/24 – 10/25	Ex. 36: Enteropluri Ex. 47: Nitrate Reduction Ex. 49: Unknown Project	Ex. 3
15	W/R 10/26 – 10/27	Ex. 48: Knowns Work on Unknown Project	Ex. 36, 47, 49
16	M/T 10/31 – 11/1	Ex. 42: Phenol Red Sugar Broth Ex. 43: Triple-Sugar Iron Agar Work on Unknown Project	Ex. 49
17	W/R 11/2 – 11/3	Written Exam 3 (Lab Periods 13 - 16) Work on Unknown Project	Ex. 42, 43, 49
18	M/T 11/7 – 11/8	Ex. 21: Catalase Ex. 22: Oxidase Work on Unknown Project	Ex. 21, 22, 49
19	W/R 11/9 – 11/10 cancelled	Ex. 44: Litmus Milk Ex. 45: IMViC Testing (SIM, MR-VP, Simmon's Citrate) Work on Unknown Project	Ex. 49
20	M/T 11/14 – 11/15	Ex. 44: Litmus Milk Ex. 45: IMViC Testing (SIM, MR-VP, Simmon's Citrate) Ex. 46: Urease Test Work on Unknown Project	Ex. 45, 49
21	W/R 11/16 – 11/17	Ex. 39: Gelatin Hydrolysis Ex. 40: Starch Hydrolysis Ex. 41: Casein Hydrolysis Work on Unknown Project	Ex. 39, 40, 41, 44, 49
22	M/T 11/21 – 11/22	Clean up lab – last day to run any test on your unknown Review for Final Exam (Students may attend other lab sections)	Ex. 46, 49
23	W/R 11/30 – 12/1	Final Practical (Periods 13-21) & Written Exam 4 (Periods 18-21)	