

MCB2010L SPRING 2024 Session 1**Textbook: Microbiology Fundamentals: A Clinical Approach Lab Manual 4th Edition.**

Week	Lab Period	Dates	Days	Exercise(s)	Record Results
1	1	1/8-1/9	MT	Introduction to Lab & Course Materials 1. Use of the Microscope	1
	2	1/10-1/11	WR	4. Microbial Phototroph 5. Protozoans	4, 5
2		1/15-1/16	MT	LAB CLOSED: MLK	
	3	1/17-1/18	WR	6. Fungi 7. Hanging Drop (demo)	6, 7
3	4	1/22 – 1/23	MT	2. Aseptic Technique	
	5	1/24-1/25	WR	8. Simple Staining 9. Negative Staining	8, 9
4	6	1/29-1/30	MT	10. Capsule Staining 11. Gram Staining	10, 11
	7	1/31-2/1	WR	12. Acid Fast Staining 13. Endospore Staining	12, 13
5	8	2/5-2/6	MT	14. Blood Agar EXAM 1 (periods 1-7)	
	9	2/7-2/8	WR	35. Rapid Immunoassay 15. Mannitol Salt Agar 16. Eosin Methylene Blue Agar 17. MacConkey Agar	14, 35
6	10	2/12-2/13	MT	18. Chemical Content of Media 19. Osmotic Pressure and Growth 23. Plate Count	15, 16, 17
	11	2/14-2/15	WR	20. Aerotolerance 24. Killing by UV Light 25. Antimicrobial Susceptibility	18, 19, 20
7	12	2/19-2/20	MT	27. Analysis of DNA: Electrophoresis 28. Gene Transfer: Transformation	20, 24, 25
	13	2/21-2/22	WR	Review for Midterm Exams	27, 28
8	14	2/26-2/27	MT	MIDTERM PRACTICAL EXAM (periods 1-12) EXAM 2 (periods 8-12)	
	15	2/28-2/29	WR	29. Parasitic Protozoans 31. Vectors of Disease	29, 31
3/4 – 3/10: SPRING BREAK					
10	16	3/11-3/12	MT	3. Isolation Streak Plate 30. Parasitic Worms	30
	17	3/13-3/14	WR	50. Distribution of Unknown Organisms 33. Gel Immunoprecipitation 34. Passive Agglutination	3, 34
11	18	3/18-3/19	MT	49. Distribution of Known Organisms Work on isolation of unknown	33
	19	3/20-3/21	WR	37. Enteropluri Test 39. Nitrate Reduction Work on isolation of unknown	

12	20	3/25-3/26	MT	44. Phenol Red Sugar Broth 45. Triple-Sugar Iron Agar Work on isolation of unknown	37, 39
	21	3/27-3/28	WR	EXAM 3 (periods 15-20) Work on isolation of unknown	44, 45
13	22	4/1-4/2	MT	21. Catalase 22. Oxidase Work on isolation of unknown	21, 22
	23	4/3-4/4	WR	41. Gelatin Hydrolysis 48. Urease Test Work on isolation of unknown	
14	24	4/8-4/9	MT	42. Starch Hydrolysis 43. Casein Hydrolysis Work on isolation of unknown	41, 48
	25	4/10-4/11	WR	46. Litmus Milk Work on isolation of unknown	42, 43
15	26	4/15-4/16	MT	Finish Unknown Project and clean incubators	46
	27	4/17-4/18	WR	Review for Final Exams	
16	28	4/22-4/23	MT	FINAL PRACTICAL EXAM (periods 15-26) EXAM 4 (periods 22-26)	