
SCHEDULE OF LECTURES AND LABS
BIOLOGY 2900, SUMMER 2021

Note: Pacing and testing dates may be changed if the need arises. Attend class regularly.

WEEK 1		
6-9-2021	LECTURE— Introduction to microbiology DISEASE OF THE DAY--Cholera	pp. 1-58
	LAB--Orientation; Lab safety; complete on-line safety by the beginning of lab on Monday, June 14 LAB-- <i>Hand-washing exercise</i>	pp. ix-xiv; supplement exercise 35
6-10-2021	LECTURE—Introduction to microbiology (continued) DISEASE OF THE DAY—Smallpox	pp. 1-58
	LAB-- <i>Brightfield microscopy: Animal parasites</i> LAB—Set up <i>Ubiquity of Bacteria and Fungi</i>	exercise 2, supplement exercise 6, 7
WEEK 2		
6-14-2021	LECTURE—Basic concepts in medical microbiology LECTURE—Microscopy DISEASE OF THE DAY—Bubonic plague	pp. 32-58 pp. 62-82
	LAB—Complete <i>Ubiquity of Bacteria and Fungi</i> LAB—More microscopy: <i>Bacterial types</i> LAB--Even more microscopy: <i>Living protozoa, algae, cyanobacteria</i>	exercise 6, 7 exercise 5

WEEK 4		
6-28-2021	LECTURE—Intro to bacterial metabolism DISEASE OF THE DAY— Viral gastroenteritis, Amoebic dysentery	pp. 106-118
	LAB—Continue <i>Selective and differential media & Isolation of bacteria from natural foods (EMB agar)</i> LAB—Complete: <i>Spore staining</i> LAB—Complete: <i>Effects of UV light</i>	handout exercise 10 exercise 15 exercise 30
6-29-2021	LECTURE— Bacterial metabolism DISEASE OF THE DAY--Polio	pp. 192-218
	LAB—Set up: <i>Enumeration of virus particles</i> LAB—Continue isolations (Nutrient agar)	handout
6-30-2021	LECTURE— Bacterial metabolism DISEASE OF THE DAY—Measles (Rubeola & Rubella)	pp. 192-218
	LAB—Complete: <i>Enumeration of virus particles</i> LAB--Set up: Characterizing unknown bacteria I LAB— <i>Gram stain of unknowns</i>	handout exercise 24 exercise 18, 25
7-1-2021	LECTURE—Controlling metabolism DISEASE OF THE DAY—Mumps & Chickenpox	BT/F2 9.96 Tf1 0 0 1

WEEK 7		
7-19-2021	UNIT EXAM III	
	LAB—Set up <i>Transformation of E. coli</i>	handout
7-20-2021	LECTURE—Defenses: Adaptive immunity DISEASE OF THE DAY— <i>Rickettsia</i> infections	pp. 480-560
	LAB—Complete <i>Transformation of E. coli</i>	handout
	LAB—Set up <i>ELISA</i>	handout
7-21-2021	LECTURE—Defenses: Adaptive immunity DISEASE OF THE DAY—Chlamydia, Gonorrhea	pp. 480-560
	LAB QUIZ I	handouts
7-22-2021	LECTURE— Controlling disease (medications	