

Lecture & Lab Schedule: The lecture and lab topics and assigned readings are noted below.

Wk	Date	Lecture Topic	Lecture Reading	Lab Topic
1	W 2/22	Introduction/Studying Life	Chapter 1	-Research Deconstruction: Pre-seminar survey; Video & discussion on Seminar; introduction, homeostasis -Video: scientific method -Hwk: 1 st Seminar Report -Lab Introduction: (significant digits; metric unit conversion; scientific method) -pipetting basics -Continue with lecture (potential)
	F 2/24	Small Molecules & Chemistry of Life	Chapter 2	
2	W 3/1	Carbs, Lipids, & Proteins	Chapter 3	Lab 2: Microscope (2 pts) Note: Bring USB flash drive if you want to take & save pictures from the microscope
	F 3/3	Proteins	Chapter 3	
3	W 3/8	Nucleic Acids & Origin of Life	Chapter 4	Lab 3: Diffusion & Osmosis (2 pts)
	F 3/10	Cell Structure (Prok & Euk)	Chapter 5	
	F 3/10	Cell Structure (Prok)	Chapter 5	
4	W 3/15	Eukaryotes	Chapter 5	Lab 4: Enzyme Kinetics (2 pts)
	F 3/17	Lecture Exam 1	Chapters 1-5	
5	W 3/22	Cell Membranes	Chapter 6	Lab 5: Fermentation (2 pts)
	F 3/24	Energy & Enzymes	Chapter 8	
6	W 3/29	Cellular Respiration	Chapter 9	Lab 6 Photosynthesis (2 pts)
	F 3/31	CESAR CHAVEZ DAY	CAMPUS	CLOSED
7	W 4/5	Cellular Respiration, Fermentation	Chapter 9	Photosynthesis I Lecture (Chapter 10) Lect. Catch-up Lab Exam 1 Review

	F 4/7	Lab Exam 1 (Introduction to Fermentation)		
8	W 4/12	Photosynthesis II Gene Expression	Chapter 10 Chapter 14	Lab 7A: Bacterial Transformation Day 1 Research Deconstruction: Videos & discussions on: immunofluorescence-localization of ER-alpha;
	F 4/14	Lecture Exam 2	Chapters 6, 8, 9, 10	
	4/17 to 4/21	SPRING BREAK	SPRING	BREAK
9	W 4/26	Gene Expression Transcription/Translation Hwk	Chapter 14	Lab 7B: Bacterial Transformation Day 2 (3 pts) Research Deconstruction: in situ hybridization-Tac-1 & Rprm gene expression
	F 4/28	Regulation of Gene Expression	Chapter 16	
10	W 5/3	Recombinant DNA & Biotechnology	Chapter 18	Lab 8A: PV92 PCR Day 1 (DNA isolation & PCR; practice gel loading)
	F 5/5	Cell Signaling	Chapter 7	
11	W 5/10	Cell Cycle & Mitosis	Chapter 11	Lab 8B: PV92 PCR Day 2 (gel electrophoresis) (2 pts) Research Deconstruction: siRNA-Rprm knockdown & Cre-Lox Recombinase System; Recap of Research Deconstruction seminar
	F 5/12	Cell Cycle & Meiosis	Chapter 11	
12	W 5/17	Inheritance I	Chapter 12	Lab 9: Mendelian Genetics I & II (3 pts)
	F 5/19	Lecture Exam 3	Chapters 14, 16, 18, 7, 11	

13	W 5/24	Inheritance II	Chapter 12	Lab 10: Mendelian Genetics Review Research Deconstruction: Recap seminar
	F 5/26	Inheritance II (cont.) DNA Replication	Chapter 12 Chapter 13	
14	W 5/31	DNA Replication Gene Mutation	Chapter 13 Chapter 15	Lab 10: -Q&A with seminar speaker -Hwk: 2 nd Seminar Report -Review Lab Exam 2
	F 6/2	Gene Mutation	Chapter 15	
15	W 6/7	Genomes	Chapter 17	-Lecture catch-up -Lab Exam 2 Review
	F 6/9	Lab Exam 2 (Photosynthesis, Transformation – Mendelian Genetics)		
16	F 6/16	Lecture Final EXAM 9:10 am to 11:30 am	Chapters 12, 13, 15, 17	