

TENTATIVE COURSE SCHEDULE

Fall 2022

	Date	Topic	Reading Assignment
1	Mon., Aug 22	Course Introduction	Syllabus
2	Wed., Aug 24	Research Deconstruction: Research Seminar presented by (Dr. Stephanie Correa)	
3	Fri., Aug 26	The Study of Life	Ch. 1
4	Mon., Aug 29	Chemistry Review	Ch. 2.1
5	Wed., Aug 31	Water	Ch. 2.2 Homework 1 DUE
6	Fri., Sept 02	Carbon and Macromolecules	Ch. 2.3& 3.1
7	Mon., Sept 05	Labor Day (No class)	
8	Wed., Sept 07	Carbohydrates and Lipids	Ch. 3.2&3.3 Homework 2 DUE
9	Fri., Sept 09	Proteins and Nucleic acids	Ch. 3.4&3.5
10	Mon., Sept 12	Research Deconstruction - The Scientific Method	Scientific method video, parts 1 and 2.
11	Wed., Sept 14	EXAM 1	Homework 3 DUE Tuesday Feb 15
12	Fri., Sept 16	Cell Structure	Ch. 4.1-4.3
13	Mon., Sept 19	Coordinating Cell Activities	Ch. 4.4-4.6
14	Wed., Sept 21	The Plasma Membrane	Ch. 5.1 Homework 4: Cell Structure DUE
15	Fri., Sept 23	Membrane transport	Ch. 5.2-5.4
16	Mon., Sept 26	Concepts of Metabolism	Ch. 6.1-6.5 Homework 5: Plasma membrane DUE
17	Wed., Sept 28	Cellular Respiration	Ch. 7.1-7.4
18	Fri., Sept 30	Cellular Respiration	Ch. 7.5-7.7 Homework 6: Metabolism DUE
19	Mon., Oct 03	Photosynthesis - Light reactions	Ch. 8.1-8.2

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20	Wed., Oct 05	Photosynthesis - Dark Reactions	Ch. 8.3 Homework 7: Cellular Respiration DUE
21	Fri., Oct 07	Research Deconstruction - Heat generation and thermogenesis	
22	Mon., Oct 10	EXAM 2	Homework 8: Photosynthesis DUE
23	Wed., Oct 12	Mitosis	Ch. 10.1&10.2
24	Fri., Oct 14	Cell cycle and Cancer	Ch. 10.3&10.4 Homework 9:Mitosis DUE
25	Mon., Oct 17	Meiosis	Ch. 11
26	Wed., Oct 19	Mendelian Genetics	Ch. 12.1-12.3
27	Fri., Oct 21	Mendelian Genetics	Ch. 12.1-12.3 Homework 10: Meiosis DUE
28	Mon., Oct 24	Pedigrees	Khan Academy video
29	Wed., Oct 26	Chromosomal Inheritance	Ch. 13.1&13.2 Homework 11: Genetics DUE
30	Fri., Oct 38	Chromosomal Inheritance	Ch. 13.1&13.2
31	Mon., Oct 31	Research Deconstruction- 4 Core genotypes mouse model	
32	Wed., Nov 02	EXAM 3	Homework 12: Chromosomal Inheritance DUE Tuesday (11/2)
33	Fri., Nov 04	DNA Structure and Function	Ch. 14.1-14.3
34	Mon., Nov 07	DNA replication	Ch. 14.4-14.7
35	Wed., Nov9	DNA replication	Ch. 14.4-14.7
36	Fri., Nov 11	Veteran's Day (No class)	
37	Mon., Nov 14	Gene Expression (Transcription/translation)	Ch. 15

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38	Wed., Nov 16	Gene Expression (Transcription/translation)	Ch. 15 Homework 13: DNA DUE	
39	Fri., Nov 18	Gene Expression (Transcription/translation)	Ch. 15	
40	Mon., Nov 21	Regulation of Gene Expression: Prokaryotes	Ch. 16.1-16.4	
41	Wed.- Fri., Nov 23-25	Thanksgiving Break (No classes)		
42	Mon., Nov 28	Regulation of Gene Expression: Eukaryotes	Ch. 16.5-16.7 Homework 14: Gene Expression DUE	
43	Wed., Nov 30	Regulation of Gene Expression: Eukaryotes	Ch. 16.5-16.7	
44	Friday., Dec 02	Research Deconstruction – The Cre-Lox system. What is the Reprimo gene? RNA interference experiments.	Cre-Lox video	
45	Mon., Dec 05	Research Deconstruction- Question and answer session with Dr. Stephanie Correa	Homework 15: Gene Expression DUE	
46	Wed., Dec 07	EXAM 4 Last Day of Instruction – Final Exam review session.		
Finals week			Days	Dates
Final Exam Preparation & Faculty Consultation Days:			Thursday and Friday	Dec 08-09
Final Semester Examinations			Monday – Thursday	Dec 12 – 15
Cumulative Final Exam in this course			Monday	Dec 18 at 11 am