

Lecture Schedule Biology 242: Cellular and Molecular Biology

Professor Baker - 313 Carnegie, x 6108. Office Hours – Tuesday 10:00-11:30, Wednesday 1:00-2:00
 Professor Abrahamsen – 313 Carnegie, x 8266. Office Hours – Thursday 1:30-2:30

Week 1	Topic	Chapter	Lecturer
Sept. 9	Introduction, Chemical Components of Cells	2	Baker, Abrahamsen
11	Protein Structure/Function	4	Baker
Week 2			
14	Protein Structure/Function	4	Baker
16	Scientific Writing / Membrane Structure	11	Rudolph/Baker
18	Membrane Function	11	Baker
Week 3			
21	Membrane Transport	12	Kleckner
23	Ion Channels	12	Kleckner
25	Energy, Catabolism and Anabolism	3	Baker
Week 4			
28	How Cells Obtain Energy from Food	13	Abrahamsen
30	Regulation of Metabolism	13	Abrahamsen
Oct 2	EXAM I		
Week 5			
5	Generating Usable Energy 1 – Oxidative Phosphorylation	14	Abrahamsen
7	Generating Usable Energy 2 - Photosynthesis	14	Abrahamsen
9	DNA and Chromosomes	5	Baker
Week 6			
12	DNA Replication, Repair, Recombination	6	Baker
14	DNA Replication and Repair	6	Baker
16	Sex and Genetics	19	Richards
Week 7			
19	Sex and Genetics	19	Richards

21-25	Break		
Week 8	Topic	Chapter	Lecturer
26	DNA to RNA – transcription	7	Abrahamsen
28	DNA to RNA to Protein - translation	7	Abrahamsen
30	Exam II		
Week 9			
Nov. 2	Control of Gene Expression	8	Abrahamsen
4	Transcriptional Switches	8	Abrahamsen
6	Cellular Diversity – Specialized Cell Types	8	Abrahamsen
Week 10			
9	How Genes/Genomes Evolve	9	Abrahamsen
11	Analyzing Genes	10	Abrahamsen
13	Intracellular Compartments and Transport	15	Baker
Week 11			
16	Intracellular Compartments and Transport	15	Baker
18	Cell Communication	16	Baker
20	Cell Communication	16	Baker
Week 12			
21-29	Thanksgiving Break		
Week 13			
30	Cytoskeleton	17	Baker
Dec. 2	Cytoskeleton	17	Baker
4	Cell Cycle Control and Cell Death	18	Baker
Week 14			
7	Cellular Communities – Tissues/Stem Cells	20	Baker
9	Cellular Communities - Cancer	20	Baker
11			
	Final Exam		