

7.00x Course Readings

Lecture	Topic	Reading
All	Glossary	For your reference: http://www.ncbi.nlm.nih.gov/books/NBK21052/
2	Basic Biochemistry, Macromolecules: lipids, carbohydrates	http://www.ncbi.nlm.nih.gov/books/NBK26883/ http://www.ncbi.nlm.nih.gov/books/NBK21055/
3	Proteins and Protein Structure	http://www.ncbi.nlm.nih.gov/books/NBK26883/ http://www.ncbi.nlm.nih.gov/books/NBK26911/
4	Enzymes	
5	Pathways: Glycolysis	http://www.ncbi.nlm.nih.gov/books/NBK26882/
6	Mendel	http://www.ncbi.nlm.nih.gov/books/NBK22098/
7	Rediscovery of Mendel and advances by TH Morgan	http://www.ncbi.nlm.nih.gov/books/NBK22076/ http://www.ncbi.nlm.nih.gov/books/NBK21827/
8	Basics of human genetics	http://www.ncbi.nlm.nih.gov/books/NBK21977/ http://www.ncbi.nlm.nih.gov/books/NBK22090/
9	Biochemical Genetics	http://www.ncbi.nlm.nih.gov/books/NBK21921/ http://www.ncbi.nlm.nih.gov/books/NBK21850/
10	DNA as the hereditary material	http://www.ncbi.nlm.nih.gov/books/NBK22104/ http://www.ncbi.nlm.nih.gov/books/NBK21261/
11	Central Dogma: DNA Replication	http://www.ncbi.nlm.nih.gov/books/NBK26850/
12	Central Dogma: Transcription and Translation	http://www.ncbi.nlm.nih.gov/books/NBK26887/ http://www.ncbi.nlm.nih.gov/books/NBK26829/
13	Variations on the Central Dogma	
14	A tale of two genes: Beta-gal and Beta-globin	
15	Cloning: Purifying a gene	http://www.ncbi.nlm.nih.gov/books/NBK21826/
16	Finding a specific gene in the library	
17	Analyzing a gene	http://www.ncbi.nlm.nih.gov/books/NBK21505/ http://www.ncbi.nlm.nih.gov/books/NBK26837/
18	Human genome and positional cloning	http://www.ncbi.nlm.nih.gov/books/NBK7561/

		http://www.ncbi.nlm.nih.gov/books/NBK21841/
19	Secrets of the Human Genome	http://www.ncbi.nlm.nih.gov/books/NBK21112/ http://www.ncbi.nlm.nih.gov/books/NBK21122/ http://www.ncbi.nlm.nih.gov/books/NBK7562/
20	Observing	http://www.ncbi.nlm.nih.gov/books/NBK21116/ http://www.ncbi.nlm.nih.gov/books/NBK21121/
21	Perturbing the genome to probe function	http://www.ncbi.nlm.nih.gov/books/NBK7563/ http://www.ncbi.nlm.nih.gov/books/NBK7568/#A2590
22	Familial Hypercholesterolemia	http://www.ncbi.nlm.nih.gov/books/NBK21639/ http://www.ncbi.nlm.nih.gov/books/NBK9831/box/A2031/
23	Cancer	http://www.ncbi.nlm.nih.gov/books/NBK21076/ http://www.ncbi.nlm.nih.gov/books/NBK26891/ http://www.ncbi.nlm.nih.gov/books/NBK26897/ http://www.ncbi.nlm.nih.gov/books/NBK26816/ http://www.ncbi.nlm.nih.gov/books/NBK26902/ http://www.ncbi.nlm.nih.gov/books/NBK26811/
24	Science and Society	http://themoth.org/posts/storytellers/eric-s-lander http://blogs.nature.com/news/2013/04/us-supreme-court-hears-arguments-in-gene-patent-case.html http://www.americanbar.org/content/dam/aba/publications/supreme_court_preview/briefs-v2/12-398_neither_amcu_lander.authcheckdam.pdf