7.00x Associated Readings

Weeks 1-9

If you find that you need more information on a given topic in addition to the lecture and deep dives, we gave a link to the appropriate material in an online textbook where available.

Week	Topic	Reading Link
1	**Basic Biochemistry, Macromolecules: lipids, carbohydrates**	http://www.ncbi.nlm.nih.gov/books/NBK26883/ http://www.ncbi.nlm.nih.gov/books/NBK21055/
2	**Proteins and Protein Structure**	http://www.ncbi.nlm.nih.gov/books/NBK26883/ http://www.ncbi.nlm.nih.gov/books/NBK26911/
2	**Enzymes**	
2	**Pathways: Glycolysis**	http://www.ncbi.nlm.nih.gov/books/NBK26882/
3	**Mendel**	http://www.ncbi.nlm.nih.gov/books/NBK22098/
3	**Rediscovery of Mendel and advances by TH Morgan**	http://www.ncbi.nlm.nih.gov/books/NBK22076/ http://www.ncbi.nlm.nih.gov/books/NBK21827/
4	**Basics of human genetics**	http://www.ncbi.nlm.nih.gov/books/NBK21977/ http://www.ncbi.nlm.nih.gov/books/NBK22090/
4	**Biochemical Genetics**	http://www.ncbi.nlm.nih.gov/books/NBK21921/ http://www.ncbi.nlm.nih.gov/books/NBK21850/
5	**DNA as the hereditary material**	http://www.ncbi.nlm.nih.gov/books/NBK22104/ http://www.ncbi.nlm.nih.gov/books/NBK21261/
5	**Central Dogma: DNA Replication**	http://www.ncbi.nlm.nih.gov/books/NBK26850/
6	**Central Dogma: Transcription and Translation**	http://www.ncbi.nlm.nih.gov/books/NBK26887/ http://www.ncbi.nlm.nih.gov/books/NBK26829/
6	**Variations on the Central Dogma**	
7	**A tale of two genes: β-galactosidase and β-globin**	
7	**Cloning: Purifying a gene**	http://www.ncbi.nlm.nih.gov/books/NBK21826/
8	**Finding a specific gene in the library**	
8	**Analyzing a gene**	http://www.ncbi.nlm.nih.gov/books/NBK21505/ http://www.ncbi.nlm.nih.gov/books/NBK26837/
9	**Human genome and positional cloning**	http://www.ncbi.nlm.nih.gov/books/NBK21841/
9	**Secrets of the human genome**	http://www.ncbi.nlm.nih.gov/books/NBK7562/