

Appendix 1. Class schedule for Fall 2003 more traditional section of BIOL 2104. JS was the instructor. The text was Hausman and Cooper's The Cell: A Molecular Approach, 3rd ed.

BIOL 2104 CRN 90731

Class	Date	Topic	Relevant text
1	Mon, Aug 25	Evolution of the Cell and the Cell Biologist	pp. 3-15
2	Wed, Aug 27	How do we study Cell Biology?-microscopy and biochemistry	pp. 20-31
3	Fri, Aug 29	How do we study Cell Biology?-model organisms/group exercise= quiz 1	pp. 15-20
4	Mon, Sep 1	The building blocks of life	pp. 41-56
5	Wed, Sep 3	Enzymes: the instruments of change	pp. 56-63
6	Fri, Sep 5	The early molecular biologists/quiz 2	pp. 89-103
7	Mon, Sep 8	Modern molecular biology techniques I - recombinant DNA and cloning	pp. 104-111
8	Wed, Sep 10	Modern molecular biology techniques II - DNA sequencing and PCR	pp. 112-116
9	Fri, Sep 12	Modern molecular biology techniques III - transgenics, "knockouts" and RNAi	pp. 125-132
10	Mon, Sep 15	Cellular Genomes: How are they organized?/quiz 3	pp. 139-158
11	Wed, Sep 17	The Human Genome Project	pp. 158-173
12	Fri, Sep 19	Exam I	
13	Mon, Sep 22	DNA replication	pp. 179-192
14	Wed, Sep 24	DNA repair	pp. 192-203
15	Fri, Sep 26	RNA transcription - quiz 4	pp. 231-261
16	Mon, Sep 29	NO CLASS	
17	Wed, Oct 1	How do we study RNA? classic techniques and microarrays - Dr. Lederman	
18	Fri, Oct 3	RNA processing = quiz 5 - Dr. Huckle	pp. 261-276
19	Mon, Oct 6	Protein translation I	pp. 281-298
20	Wed, Oct 8	Protein translation II	"
21	Fri, Oct 10	Protein processing, modification and turnover / quiz 6	pp. 298-316
22	Mon, Oct 13	Exam II	
23	Wed, Oct 15	Nuclear architecture and transport	pp. 323-353
24	Fri, Oct 17	ER and Golgi	pp. 356-382
25	Mon, Oct 20	Vesicle Transport, Lysosomes/quiz 7	pp. 389-394
26	Wed, Oct 22	Mitochondria I- architecture and genetics	pp. 399-408
27	Fri, Oct 24	Mitochondria II - oxidative phosphorylation	pp. 408-415
28	Mon, Oct 27	Chloroplasts and photosynthesis/quiz 8	"
29	Wed, Oct 29	Cytoskeleton I - microtubules - Dr. Walker	pp. 462-478
30	Fri, Oct 31	NO CLASS	
31	Mon, Nov 3	Cytoskeleton II - actin and intermediate filaments	pp. 436-461
32	Wed, Nov 5	Membrane Transport I/quiz 9	pp. 483-510
33	Fri, Nov 7	Membrane Transport II	"
34	Mon, Nov 10	Exam III	
35	Wed, Nov 12	The Hallmarks of Cancer	Hanahan & Weinberg
36	Fri, Nov 14	Hallmark 1 Self-sufficiency in Growth - Cell Signaling	pp. 567-571,605-608, 653-655
37	Mon, Nov 17	Hallmark 1 Self-sufficiency in Growth - Cell Cycle	pp. 592-596
38	Wed, Nov 19	Hallmark 2 Avoiding Antigrowth Signals/quiz 10	
39	Fri, Nov 21	Hallmark 3 - Promoting Angiogenesis THANKSGIVING BREAK	"
40	Mon, Dec 1	Hallmark 4 - Tissue invasion and metastasis	pp. 522-528
41	Wed, Dec 3	Hallmark 5 - Limitless replicative potential (telomerase and stem cells)/quiz 11	pp. 621-622
42	Fri, Dec 5	Hallmark 6 - Evading apoptosis	pp. 579-584, 656
43	Mon, Dec 8	Hallmark 7 - Genomic instability	pp. 596-598
44	Wed, Dec 10	Wrapping Up - Emerging cancer therapies/quiz 12	pp. 664-669
45	Wed, Dec 17	FINAL EXAM 7:45 - 9:45 AM	