



Please read the indicated lab exercises* and text chapters† **before** coming to class.

	MONDAY	LAB	WEDNESDAY	FRIDAY
1 st JAN	CAS/S.F. ZOO FREE DAY 1 st WEDNESDAY / MONTH	Study Strategies “lab” on 1/23/08 (optional)	23 Introduction, web & other resources	25 ☆E★1: <i>Unity, diversity, levels, limits & scope</i>
2 nd JAN	28 ☆E★2: <i>Method & Matter</i>	L2: Sense, Data & Great Fermentations	30 ☆E★2: <i>Atoms, bonds, acids, bases & water</i>	1 ☆E★2: <i>Molecules for life</i>
3 rd FEB	4 ☆E★3: <i>How cells are put together</i>	L3: Dealing with Data	6 ☆E★3: <i>Cell size & shapes</i>	8 ☆E★3: <i>Membranes & organelles</i>
4 th FEB	11 ☆E★4: <i>How Cells Work</i>	L4: Microscopy and Osmotic Pressure	13 ☆E★4: <i>Transport of energy & stuff</i>	15 Darwin’s Birthday, delayed
5 th FEB	18 Holiday: Washington’s	Birthday renamed	20 ☆E★5: <i>Energy Matters</i>	22 Exam 1: ☆E★1–3
6 th FEB	25 ☆E★5: <i>The “photo” part of photosynthesis</i>	L6: Photosynthesis	27 ☆E★5: <i>The “synthesis” part of photosynthesis</i>	29 ☆E★6: <i>Universal tricks: everybody got glycolysis.</i>
7 th MAR	3 ☆E★6: <i>Shared skills: plant cell mitochondria</i>	L7: Survivor, get lunch. (also Survivor.pdf)	5 ☆E★6: <i>Oxygen’s Good, Bad and Ugly</i>	7 ☆E★7: <i>How Cells Reproduce</i>
8 th MAR	10 ☆E★7: <i>So, what about the “F-word?”</i>	L8: Mitosis & Worms	12 ☆E★8: <i>Getting Started with Genetics</i>	14 Exam 2: ☆E★4–6
MAR	17 SPRING BREAK	SPRING BREAK	19 SPRING BREAK	21 SPRING BREAK
9 th MAR	24 ☆E★8: <i>Observing More Patterns in Inheritance</i>	L9: Genetics & Gregor	26 ☆E★8: <i>Human Chromosome Changes</i>	28 ☆E★9: <i>DNA Structure</i>
10 th APR	31 ☆E★9: <i>DNA Function</i>	L10: VGL (Virtual Genetics Lab)	2 ☆E★10: <i>Gene Expression & Control</i>	4 ☆E★10: <i>Controlling the Controller</i>
11 th APR	7 ☆E★11: <i>Studying & Manipulating Genomes</i>	L11: VGL solutions	9 ☆E★12: <i>Processes of Evolution</i>	11 Exam 3: ☆E★7–10
12 th APR	14 ☆E★12: <i>What we saw in the Galápagos</i>	L12: To change allele frequencies is to Evolve	16 ☆E★13: <i>Evolutionary Patterns, Rates & Trends</i>	18 ☆E★13: <i>Species and Speciation</i>
13 th APR	21 ☆E★14: <i>Early Life</i>	L13: EvolSeq & Intro to Globin	23 ☆E★14: <i>Simpler Lives Today</i>	25 Exam 4: ☆E★12–13
14 th APR	28 ☆E★14: <i>Virus: “the enemy of my enemy?”</i>	L14: Globin at the SuperComputer	30 ☆E★16: <i>Animal Evolution</i>	2 ☆E★16: <i>Animal Evolution</i>
15 th APR	5 ☆E★17: <i>Animals Change to Stay the Same</i>	L15: Friday Field Trip -1.38 @ 8:37 AM	7 ☆E★17: <i>Basic Needs and Communication</i>	9 ☆E★17: <i>Basic Needs and Communication</i>
16 th MAY	12 ☆E★18: <i>Population Ecology</i>	L16: Comparative Anatomy	14 ☆E★19: <i>Community Structure & Biodiversity</i>	16 Exam 5: ☆E★16–17
17 th MAY	19 ☆E★20: <i>Ecosystems</i>	L17: Island Biogeography	21 ☆E★21: <i>The Biosphere</i>	23 ☆E★22: <i>Behavioral Ecology</i>
18 th MAY	26 Holiday: Memorial Day		28 Final exam 8:10-10:40	
		† (C) refers to a chapter in Starr, Evers & Starr’s <i>Biology: Today & Tomorrow</i> , 2 nd Ed. *(L) refers to week’s lab download from http://www.smccd.edu/accounts/bucher/		

May 1st is the last day to withdraw from a semester-long course without possible penalty.

“Science is built with facts as a house is with stones—but a collection of facts is no more a science than a heap of stones is a house.”

—Jules Henri Poincare (1854-1912)