













































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

WEEK	TUESDAY LECTURE	LAB	THURSDAY LECTURE
1 <sup>st</sup> JAN	18 Logistics, expectations, methods	Introduction, strategies, Macs, web & other resources	20  1: Science: Best path to understanding
2 <sup>nd</sup> JAN	25  2: Chemistry: Raw materials & fuel for our bodies	L2: Sense, Data & Great Fermentations	27  2: Chemistry: Raw materials & fuel for our bodies
3 <sup>rd</sup> FEB	1  3: Cells: The smallest part of you	L3: Dealing with Data	3  3: Cells: The smallest part of you
4 <sup>th</sup> FEB	8  4: Energy: The sun to you in just two steps	L4: Microscopy and Osmotic Pressure	10   Exam 1: Ch 1-3  4: Energy
5 <sup>th</sup> FEB	15  4: Energy: The sun to you in just two steps	L6: Photosynthesis	17  4: Energy: The sun to you in just two steps
6 <sup>th</sup> FEB	22  5: DNA and Biotechnology: What's the code & how's it harnessed?	L7: Survivor, get lunch. (also Survivor.pdf & Ch. 22)	24   Exam 2: Ch. 4  5: DNA structure and code
7 <sup>th</sup> MAR	1  5: DNA and Biotechnology: What's the code & how's it harnessed?	L8: Mitosis & Worms	3  5: DNA and Biotechnology: What's the code & how's it harnessed?
8 <sup>th</sup> MAR	8  6: C'somes & Cell Division: Continuity and variety	L9: Genetics & Gregor	10  6: C'somes & Cell Division: Continuity and variety
9 <sup>th</sup> MAR	15  7: Mendelian Inheritance: How are traits inherited?	L10: VGL (Virtual Genetics Lab)	17  7: Mendelian Inheritance: How are traits inherited?
10 <sup>th</sup> MAR	22  7: Mendelian Inheritance: How are traits inherited?	L11: VGL solutions	24  8: Evolution & Natural Selection: Darwin's dangerous idea
11 <sup>th</sup> MAR	29  8: Evolution & Natural Selection: Darwin's dangerous idea	L12: To change allele frequencies is to Evolve	31   Exam 3: Ch. 5-7
APR	5 SPRING BREAK	SPRING BREAK	7 SPRING BREAK
12 <sup>th</sup> APR	12  9: Evolution & Animal Behavior: Communication, cooperation, conflict	L13: EvolSeq & Intro to Globin	14  9: Evolution & Animal Behavior: Communication, cooperation, conflict
13 <sup>th</sup> APR	19  10: History of Life & Biodiversity	L14: Globin at the SuperComputer	21  10: History of Life & Biodiversity
14 <sup>th</sup> APR	26  11: Animal Diversification	L15: Island Biogeography	28   Exam 4: Ch. 8-10  11: Animals
15 <sup>th</sup> MAY	3  20: Intro to Animal Physiology	L16: Comparative Anatomy	5  20: Animal organization and function
16 <sup>th</sup> MAY	10  23: Neurons & Neurotransmitters	L17: Diving Reflex	12  23: Neurons & Neurotransmitters
17 <sup>th</sup> MAY	17  24: Hormones • Emotions, growth, reproduction	L 18: Last Possible Field Trip Saturday -0.95 @ 9:21 AM	19  24: Hormones • Emotions, growth, reproduction
18 <sup>th</sup> MAY	24   <b>Final exam 8:10-10:40</b>		26
BONUS FIELD TRIPS ARE OPTIONAL & MOSTLY SELF-LED WITH PDF GUIDE.		† (  ) refers to a chapter in <i>What is Life? A Guide to Biology</i> by Jay Phelan *(L) refers to lab download from <a href="http://www.smccd.edu/accounts/bucher/">http://www.smccd.edu/accounts/bucher/</a>	

April 28<sup>th</sup> 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)