

Course Schedule

BioSci 110 – Introduction to Biological Science
 Contra Costa College, Instructor: Katherine Krolikowski

F2017 (Section 4206)

Date	Day	Topic	Reading	Assignment due	My Score	Lab
8/15	Tu	Course introduction, Biology overview	p2-6p2-6			Lab Intro: Safety, study skills, contact info.
8/17	Th	Communities, Energy, Ecosystems, Chem	p4, 581-582, 601-609, 610-614	Quiz 1	10	
8/22	Tu	Overview of life; Life and diversity	[p2-6, 295-303], 303-308, 313-316, 326-333, 338-343	Assignment 1: Pre-lab A	15	* Lab A: Scientific Method, Seeds and Soil (MW p11-15, 293-298, 310-312, 319-326, 371-373, 404, 614-622, 634-638, 644-647, 648-650)
8/24	Th	Chemistry introduction, Cells	p614-618, 22-28, 62-65	Quiz 2 Lab A Writeup	10 20	
8/29	Tu	Adaptations, Chemistry, water, abiotic factors.	p29-32, 33-35, 614-618	Assignment 2: Pre-lab B	15	* Lab B: Food preservation through pickling and fermentation (MW p11-15, 30-32, 38-47, 118-119, 293-298)
8/31	Th	Organic molecules characterize life, Metabolism	p39-45	Quiz 3 Lab B Writeup	10 20	
9/5	Tu	Life and diversity (part 2), Natural Selection (1)	p[6-11], 254-259	Assignment 3: Pre-lab C	15	* Lab C: Field Trip to West Contra Costa Landfill - (MW p585-6, 605-613, some walking involved)
9/7	Th	EXAM 1	NOTE: office hour assessment meetings scheduled	EXAM 1 Lab C Writeup	100 20	
9/12	Tu	Organic molecules, energy, enzymes	p45-53, 80-81, 85-87	Assignment 4: Practice Test 1	15	Lab D: Microscopes: viewing plant and prokaryote cells (MW p55-63, 295-6, 371-382)
9/14	Th	All life is composed of cells, membranes are special	p 59-65	Quiz 4 Lab D Writeup	10 20	
9/19	Tu	Cells, membranes, specialized functions	p[59-65], 66-71, 74-75, 88-91	Assignment 5: Practice Test 2	15	Lab E: Osmosis (MW p63, 86-88)
9/21	Th	Cells, organelles and energy	p57-59, 70-81, 82-86	Quiz 5 Lab E Writeup	10 20	
9/26	Tu	Photosynthesis and energy	p96-103, [82-86], [610-614], [617-618]	Assignment 6: Practice Test 3	15	Lab H: Photosynthesis and Cellular Respiration (MW: p94-104, 109-110, 374, 377, 385-7)
9/28	Th	Photosynthesis, sugar and cellulose	p101-107, [38-44]	Quiz 6 Lab H Writeup	10 20	
10/3	Tu	Energy in ecosystems, Natural selection (2)	p[6-9], 242-244, [254-259], 601-609, 610-614]	Assignment 7: Pre-Lab F	15	* Lab F: Ecology, Point Pinole Oyster Monitoring (MW p11-15, 27-29, 251-255, 293-299, 300-301, 334-345, 584-586, 604-613, 632-633,641-643 some walking involved)
10/5	Th	EXAM 2	NOTE: office hour assessment meetings scheduled	EXAM 2 Lab F Writeup	100 20	
10/10	Tu	Energy: Cellular respiration, ATP	p[82-87], 111-112	Assignment 8 Pre-lab G	15	* Lab G: Microscopic analysis of water samples and bottom quality (MW p 55-63, 295-6, 300-305, 335-345)
10/12	Th	Respiration and fermentation	p113-122; Respiration supplement	Quiz 7 Lab G Writeup	10 20	
10/17	Tu	DNA is genetic material, Chromosomes	p185-191, 126-135	Assignment 9: Pre-lab I	15	* Lab I: Metabolism and Enzymes, Food preservation of dairy products (MW p30-32, 38-48, 83-85, 293-299)
10/19	Th	Cells divide in mitosis, Chromosomes	p[126-135], 128-133, 136-142	Quiz 8 Lab I Writeup	10	
10/24	Tu	How genes are expressed	p191-203	Assignment 10: Practice Test 4	20	Lab J: Cellular Reproduction; Mitosis (MW p126-131, 381)
10/26	Th	Sex, Organismal reproduction	p296-299, 307-308, 315-316, 318, 320, 322-323,326-329, 400-406	Quiz 9 Lab J Writeup	10 20	
10/31	Tu	Organismal reproduction	p[326-329], [400-406], 313-326, [295-301], 303-308	Assignment 10: Practice Test 5	15	Lab K: DNA replication, transcription, and translation (MW: p175-186)
11/2	Th	Animal Reproduction, Reducing chromosomes in meiosis	p147-153, 559-566, 573-575	Quiz 10 Lab K Writeup	10 20	
11/7	Tu	Guest Lecture		Assignment 11: Pre-lab L	15	* Lab L: Human Impact on trees, native plants, and the watershed (MW p613-622, 631-650)
11/9	Th	EXAM 3	NOTE: extra credit maximum points determined.	EXAM 3 Lab L Writeup	100 20	
11/14	Tu	Community review, Speciation, Natural S	p[601-609], 269-274, [254-259], 588-594	Assignment 12: Pre-lab M	15	* Lab M: Reproduction, Sex and Alcohol-making sake from rice, floral sex organs (MW p118-119, 310-323, 323-330, 398-404, LONG DAY)
11/16	Th	Mendel and genetics	p162-169	Quiz 12 Lab M Writeup	10 20	
11/21	Tu	Genetics, Pedigrees	p173-180, 169-172			NO LAB - Possible extra credit
11/23	Th	HAPPY THANKSGIVING!				
11/28	Tu	Natural Selection (3), Population genetics	p181-183, 204-206, [254-259], 260-265	Assignment 13: Practice Test 7	15	Lab N: Genetics Problem solving (MW p156-169, 220-224)
11/30	Th	Population growth, Natural Selection (5), Genetics, Human Impact, Evolution	p[581-582], 619-621, 626-645, 275-279, [269-274], 363-368	Quiz 13 Lab N Writeup	10 20	
12/5	Tu	Natural Selection (3), Population genetics	p181-183, 204-206, [254-259], 260-265	Assignment 14 Practice Test 8	15	Lab O: Populations and field trip to Wildcat Canyon (MW p585-600, p605-613)
12/7	Th	Course Review	p181-183, 204-206, [254-259], 260-265	Quiz 14 Lab O Writeup	10 20	
12/14	Th	FINAL EXAM (11:00 AM –12:50 PM)	67% material from 11/7 through 12/7 11% each from Exams 1-3	FINAL EXAM	120	