

Biology 180 Class Schedule – Autumn Quarter 2018

Instructor	Instructor	Coordinator	Polling, Field trips
Dr. Scott Freeman srf991@uw.edu	Dr. Elli Theobald ellij@uw.edu	John Parks jwparks@uw.edu	Christine Savolainen lcsavo@uw.edu

Text: *Biological Science*, 6th Edition, Freeman (Complete or Custom – see website)
 Labs: Hitchcock 243, 244, 246, 247

Lecture A: 1:30 pm to 2:20 pm, KNE 130
 Lecture B: 2:30 pm to 3:20 pm, KNE 130

Wk	Day	Date	Textbook Reading - Do before class	RQ*	Lecture Topic	Laboratory Topic
1	W	Sep 26	(none)	none	Course intro; Nature of Science	No labs this week
	Th	Sep 27	Pg. 2-4 (theory, Pasteur exp); 9-13 (Sect 1.6)	01	Experimental design	
	F	Sep 28	(none)	02	Study skills	
2	M	Oct 1	Pg. 21-27 (BioSkill 2, BioSkill 3)	03	Data analysis and statistics	Lab 1 Hypothesis Testing
	Tu	Oct 2	Pg. 435-444	04	Evidence of evolution	
	W	Oct 3	Pg. 445-450	05	Evolution by natural selection	
	Th	Oct 4	Pg. 289-296	06	Mendel: monohybrid crosses	
	F	Oct 5	(none)	none	Practice exam (online)	
3	M	Oct 8	Pg. 296-299; 257-260; 271-280	07	Dihybrid crosses; Mitosis and meiosis	Lab 2 Genetic Variation (& Antibiotic prep I)
	Tu	Oct 9	Pg. 299-302	08	Chromosome theory of inheritance	
	W	Oct 10	Pg. 302-305	09	Extensions to Mendel	
	Th	Oct 11	(none)	none	Review (optional)	
	F	Oct 12	(none)	none	Exam 1 **	
4	M	Oct 15	Pg. 97-100; 338-340; 343-345 (Section 16.4)	TBA	DNA, genes, mutations, and alleles	Lab 3 Introduction to Statistics (& Antibiotic prep II)
	Tu	Oct 16	Pg. 280-282; 284-286	TBA	Sources/extent of genetic variation	
	W	Oct 17	Pg. 456-460	TBA	Hardy-Weinberg principle	
	Th	Oct 18	Pg. 461-465	TBA	Patterns of natural selection	
	F	Oct 19	(none)	none	Practice exam (online)	
5	M	Oct 22	Pg. 451-453; 466-469	TBA	Natural and sexual selection	Lab 4 Antibiotic Resistance
	Tu	Oct 23	Pg. 469-472; 475-477	TBA	Mutation and drift	
	W	Oct 24	Pg. 461-462; 473-475	TBA	Gene flow; inbreeding	
	Th	Oct 25	(none)	none	Review (optional)	
	F	Oct 26	(none)	none	Exam 2 **	
6	M	Oct 29	Pg. 47-48; 496-503	TBA	Inferring phylogenies	Lab 5 Phylogenies I: Phylogenetic Inference
	Tu	Oct 30	Pg. 481-490	TBA	Speciation	
	W	Oct 31	Pg. 443-444; 503-505; 667-668	TBA	History of Life 1: Major innovations	
	Th	Nov 1	Pg. 507-513	TBA	History of Life 2: Radiations, extinctions	
	F	Nov 2	(none)	none	Practice exam (online)	
7	M	Nov 5	Pg. 6-8; 546-548	TBA	Innovations 1: The tree of life	Lab 6 Phylogenies II: Reading Trees
	Tu	Nov 6	Pg. 564-580 (ignore material on life cycles)	TBA	Innovations 2: Plants	
	W	Nov 7	Pg. 613-623	TBA	Innovations 3: Animals	
	Th	Nov 8	Pg. 659-667; 673-679 (Section 32.5)	TBA	Innovations 4: Chordates, Hominins	
	F	Nov 9	(none)	none	Practice exam (online)	
8	M	Nov 12	(none)	none	Veterans Day – No Classes	Lab 7 Research-Data Analysis
	Tu	Nov 13	Pg. 1076-1082	TBA	Population growth	
	W	Nov 14	Pg. 1085-1086	TBA	Human population growth	
	Th	Nov 15	(none)	none	Review (optional)	
	F	Nov 16	(none)	none	Exam 3 **	
9	M	Nov 19	Pg. 1083-1084	TBA	Population structure	No labs this week
	Tu	Nov 20	Pg. 1098-1100	TBA	Consumption	
	W	Nov 21	Pg. 1092-1093; 1100-1101	TBA	Parasitism and disease ecology	
	Th	Nov 22	(none)	none	Thanksgiving – No Classes	
	F	Nov 23	(none)	none	Holiday – No Classes	
10	M	Nov 26	Pg. 1140-1142; 1152-1155	TBA	Species richness and biodiversity	Lab 8 Biodiversity and Ecosystem Function I: Data Collection
	Tu	Nov 27	Pg. 1094-1098	TBA	Competition	
	W	Nov 28	Pg. 1101-1103	TBA	Mutualism and coevolution	
	Th	Nov 29	Pg. 1107-1111	TBA	Community structure and dynamics	
	F	Nov 30	(none)	none	Practice exam (online)	
11	M	Dec 3	Pg. 1116-1129	TBA	Ecosystems 1: Energy and nutrients	Lab 9 Biodiversity and Ecosystem Function II: Data Analysis
	Tu	Dec 4	Pg. 1129-1136	TBA	Ecosystems 2: Climate change	
	W	Dec 5	Pg. 1142-1151	TBA	Ecosystems 3: Threats to biodiversity	
	Th	Dec 6	Pg. 1156-1159	TBA	Ecosystems 4: Preserving biodiversity	
	F	Dec 7	(none)	none	Review (optional)	
	M	Dec 10	Exam 4 12:30-2:20 PM **			

* RQ = reading quiz. TBA = to be announced

** We never give early or late (makeup) exams; no exceptions! If you have an exam time conflict, please contact John Parks within the first two days of the quarter. See the course Policies for details.