

Biology 180 Class Schedule: Autumn Quarter 2009

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| Instructor: Scott Freeman | Labs: Laurie Bauman |
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Text: *Biological Science, 3rd Edition*, Freeman Lecture: M-Tu-W-Th-F, 12:30 pm to 1:20 pm KNE 130
 Class Web Site: <http://protist.biology.washington.edu/biol180/> Labs: Hitchcock 243 & 247

| Wk | Day | Date | Lecture Topic | Class Readings | Laboratory Topic |
|----|-----|---------|--|-------------------------------|--|
| 1 | W | Sept 30 | Course intro; nature of science | Appendix B:1-2, B:6-7 | No Lab |
| | TH | Oct 1 | TRIBETA: Survive & Thrive | None | |
| | F | Oct 2 | Hypothesis testing and experimental design | 2-4 (Pasteur exp only); 11-15 | |
| 2 | M | Oct 5 | The evidence for evolution | 481-489 | Data Analysis and Statistical Thinking |
| | T | Oct 6 | Evolution by natural selection | 489-495 | |
| | W | Oct 7 | Mendel: monohybrid crosses | 265-272 (but <i>not</i> 13.2) | |
| | TH | Oct 8 | <i>Practice exam</i> | None | |
| | F | Oct 9 | Dihybrid crosses; crosses workshop | 272-274 | |
| 3 | M | Oct 12 | Mitosis and meiosis | 227-231; 243-253 | Mitosis/Meiosis |
| | T | Oct 13 | Chromosome theory of inheritance | 274-281 | |
| | W | Oct 14 | Extensions to Mendel | 281-286 | |
| | TH | Oct 15 | <i>Practice exam</i> | None | |
| | F | Oct 16 | EXAM | | |
| 4 | M | Oct 19 | The nature of the gene, mutation, and alleles | 71-74,316-321,347-348 | Antibiotic Resistance |
| | T | Oct 20 | Human genetic disease | 286-289 | |
| | W | Oct 21 | Sources and extent of genetic variation | 254-260 | |
| | TH | Oct 22 | <i>Practice exam</i> | None | |
| | F | Oct 23 | Hardy-Weinberg principle | 503-508 | |
| 5 | M | Oct 26 | Natural selection revisited | 508-511; 496-500 | Study Skills & Advising |
| | T | Oct 27 | Mutation and drift | 511-518 (but <i>not</i> 25.4) | |
| | W | Oct 28 | Gene flow; inbreeding | 514-515; 518-520 | |
| | TH | Oct 29 | <i>Practice exam</i> | None | |
| | F | Oct 30 | EXAM | | |
| 6 | M | Nov 2 | Inferring phylogenies; tree of life | 543-548 | Phylogenies I: Trilobite |
| | T | Nov 3 | Speciation | 526-535 | |
| | W | Nov 4 | History of life: fossil record, dating, timeline | 548-553 | |
| | TH | Nov 5 | <i>Practice exam</i> | None | |
| | F | Nov 6 | History of life: radiations, extinctions | 554-564 | |
| 7 | M | Nov 9 | Innovations I: Plant diversification | 636-639 | Phylogenies II: Reading trees |
| | T | Nov 10 | Innovations II: Animal diversification | 690-698 | |
| | W | Nov 11 | VETERANS DAY – no class | | |
| | TH | Nov 12 | <i>Practice exam</i> | None | |
| | F | Nov 13 | Innovations III: Chordate diversification | 741-744 | |
| 8 | M | Nov 16 | Behavioral ecology | 520-523; 1152-1153; 1168-1170 | Hypothesis Testing and Experimental Design |
| | T | Nov 17 | Competition | 1196-1202 | |
| | W | Nov 18 | Consumption | 1202-1205 | |
| | TH | Nov 19 | <i>Practice exam</i> | None | |
| | F | Nov 20 | Disease ecology | 1205-1207 | |
| 9 | M | Nov 23 | EXAM | | No lab |
| | T | Nov 24 | Mutualism, Coevolution | 1207-1209 | |
| | W | Nov 25 | Population growth | 1177-1180; 1188-1190 | |
| | TH | Nov 26 | THANKSGIVING – no class | | |
| | F | Nov 27 | DAY AFTER THANKSGIVING – no class | | |
| 10 | M | Nov 30 | Life histories | 914-916; 1176-1177 | Ponds I: Data Collection |
| | T | Dec 1 | Population regulation | 1181-1188 | |
| | W | Dec 2 | Communities I: biomes, diversity gradients | 1133-1134; 1217-1219 | |
| | TH | Dec 3 | <i>Practice exam</i> | None | |
| | F | Dec 4 | Communities II: disturbance, succession | 1211-1216 | |
| 11 | M | Dec 7 | Ecosystems I: energy flow, nutrient cycling | 1222-1233 (skip1228); 572-3 | Ponds II: Data Analysis |
| | T | Dec 8 | Ecosystems II: global climate change | 1139-1143; 1238-1241 | |
| | W | Dec 9 | Conservation I: threats, projections, benefits | 1248-1256 | |
| | TH | Dec 10 | <i>Practice exam</i> | None | |
| | F | Dec 11 | Conservation II: strategies | 1256-1260 | |
| 12 | TH | Dec 17 | FINAL EXAM 8:30-10:20 am THURSDAY | | |

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