**Biology 20 – Natural History, 2017**

**Semester Schedule and Reading Assignments**

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| **Week** | **Date** | **Lecture** | **Lab (schedule weather dependent)** |
| 1 | Aug 28 | What is Natural History? What is a Naturalist?  **CalNat** Ch. 1**; Canvas** Norris, *A Lousy Bird* |  |
| Sept 30 | CA Geography and Climate  **CCL** Ch. 1; **CalNat** Ch. 2  **Canvas** Gilliam*, A Mount for All Seasons* |  |
| Sept 1 |  | *Lab – Ferns; Field Notebooks; Campus Walk*  NEW SKILLS: Keying, Journaling  **Canvas** |
| 2 | Sept 4 | ***Labor Day Holiday*** | |
| Sept 6 | CA Geology and Soils  **CCL** Ch. 1; **CalNat** Ch. 2 |  |
| Sept 8 |  | ***Quiz #1*** (ferns, journaling)  *Lab – Conifers; Campus Walk*  NEW SKILLS: Sketching  **Canvas; Bring T&S** |
| 3 | Sept 11 | Water Ecology and Politics  **CalNat** Ch. 3 |  |
| Sept 13 | Taxonomy, and the Endangered Species Act  **Canvas** *Is It or Is It Not Just Another Mouse?* |  |
| Sept 15 |  | *Field Trip – Upper Jacoby Creek*  NEW SKILLS: iNaturalist  **Bring T&S** |

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| 4 | Sept 18 | Natural Selection, Adaptation, and Speciation  **Canvas** Quammen*, Was Darwin Wrong?* |  |
| Sept 20 | ***Exam #1*** |  |
| Sept 22 |  | ***Quiz #2*** (conifers, field trips)  *Lab – Hardwoods; Campus Walk*  NEW SKILLS: Pressing Plants  **Canvas; Bring T&S** |
| 5 | Sept 25 | CA Biotic Communities, and Principles of Ecology  **CalNat** Ch. 4; Ch. 7 |  |
| Sept 27 | Beach and Dune Communities  **CCL** Ch. 2, **Canvas** McKinney, *The Lost Coast* |  |
| Sept 29 |  | *Field Trip – South Spit*  NEW SKILLS: Transect Sampling; Track Casts  Canvas |
| 6 | Oct 2 | Wetlands  **CCL** Ch. 2; **Canvas** Lopez, *Reflection on White Geese* |  |
| Oct 4 | Coastal Scrub  **CCL** Ch. 2 |  |
| Oct 6 |  | *Field Trip – North Ma-l’el Dunes*  NEW SKILLS: iNaturalist  **Canvas** |

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| **Week** | **Date** | **Lecture** | **Lab (schedule weather dependent)** |
| 7 | Oct 9 | Coniferous Forests  **CCL** Ch. 3; **Canvas** Preston, *Climbing the Redwoods*; Muir, *A Wind-Storm In the Forest* |  |
| Oct 11 | Hardwood Forests  **CCL** Ch. 3; **Canvas** Jack London |  |
| Oct 13 |  | **No Lab** |
|  | Oct 14 ***Saturday*** | ***Saturday Field Trip – Horse Mountain***  (Required trip; 10AM-3PM) | |
| 8 | Oct 16 | Grasslands  **CCL** 4 |  |
| Oct 18 | High Country Habitats  **CCL** 5; **Canvas** Kerouac, *Climbing Mt. Matterhorn* |  |
| Oct 20 |  | ***Quiz #3*** *(all trees and field trips)*  *Lab – Flowers; Campus Walk*  NEW SKILLS: Behavioral Observation;  **Canvas** |
| 9 | Oct 23 | High and Low Deserts  **CCL** 6; **Canvas** Abbey, *Death Valley* |  |
| Oct 25 | Panel Discussion: Forest, Woodland, and Range Management – Fire, Water, and Cannabis  **CalNat** Ch. 5 |  |
| Oct 27 |  | *Lab – Mammal Skulls*  NEW SKILLS: Tooth Formulae  **Canvas** |

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| **Week** | **Date** | **Lecture** | **Lab (schedule weather dependent)** |
| 10 | Oct 30 | ***Exam #2*** |  |
| Nov 1 | Single-Celled Life  **Canvas** *Microbial Ecology*; *Origin of Eukaryotes* |  |
| Nov 3 |  | ***Quiz #4***(*flowers and skulls*)  *Lab – Critters in a Dish*  **Canvas** |
|  | Nov 4  ***Saturday*** | ***CR Campus BioBlitz!!***  (Required Class Project – Time TBA) | |
| 11 | Nov 6 | Marine Algae and Plants  **Canvas** *Origin of Flowering Plants* |  |
| Nov 8 | Marine Invertebrates  **CalNat** Ch. 6 - pg. 153; **Canvas** Castro and Huber Ch. 7 |  |
| Nov 10 | ***Veteran’s Day Holiday*** | |
| 12 | Nov 13 | Fishes  **CalNat** Ch. 6; **Canvas** |  |
| Nov 15 | Salmon Ecology and Conservation |  |
| Nov 17 |  | *Field Trip – Arcata Community Forest*  NEW SKILLS: Wildlife Handling |

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| **Week** | **Date** | **Lecture** | **Lab (schedule weather dependent)** |
| 13 | Nov 20 | Insects  **CalNat** Ch. 6; **Canvas** |  |
| Nov 22 | Amphibians  **CalNat** Ch. 6; **Canvas** |  |
| Nov 23-24 | ***Thanksgiving Holiday*** | |
| 14 | Nov 27 | Reptiles  **CalNat** Ch. 6**; Canvas** |  |
| Nov 29 | Intro to Birds and Mammals  **CalNat** Ch. 6**; Canvas** |  |
| Dec 1 |  | *Field Trip– Arcata Marsh*  **Canvas** |
| 15 | Dec 4 | Birds: Flight Patterns and Habitat Use  **Canvas** |  |
| Dec 6 | Mammals: Feeding Ecology  **Canvas** |  |
| Dec 8 |  | ***Project presentations***  NEW SKILLS: Public Speaking |
|  | Dec 11-15 | ***Finals Week – Final Exam Time TBA*** | |