Ecological Biology Content Calendar

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| **UNIT** | **≈ WEEK RANGE** | **TOPICS** | **Textbook Chapter Coverage** |
| **Biology Overview**  **& Scientific Method** | 1 | Introductions & Class Information  Interactive Notebook & Note skills  Characteristics of Life  Scientific Methods | 1.3  1.1-1.2, Appendix B: A8-A9 |
| **Systematics I** | 2-3 | Systematics & Classification  Taxonomy  Dichotomous Keys  Domains & Kingdoms  Viruses  Domain Eubacteria &  Archaebacteria  Kingdom Protista  Kingdom Fungi  Kingdom Plantae Structure &  Function  Kingdom Plantae – 4 main groups  Kingdom Plantae – Angiosperms | 19.1-19.2  19.1  19.1 (pg 616)  19.2, DOL 4 & 5  21.1, 21.2 (pgs 696-697),  1.3 (pg 24)  21.2, 20.3 (pgs 586-588),  DOL 6-9  21.3, DOL 10-15 & 21  21.4, DOL 16-19  22.1, 23.1-23.3  22.2, 22.3, DOL 20, 22-29  22.3 |
| **Systematics II** | 4-6 | Kingdom Animalia Overall  Structure & Function  --Digestion:  -food processing  -mouth parts  -digestive tracts  --Respiration:  -gills, lungs & tracheal tubes  --Circulation:  -open circulatory system  -closed circulatory system  -patterns of circulation  --Excretion:  -salt vs freshwater  -nephridia, malpighian tubes  & kidneys  --Nervous:  -invertebrate  -vertebrate  -sense organs (invert)  -sense organs (vert)  --Skeletal/Muscular:  -invert skeletal options  -vert skeletal options  -muscular sys  --Reproductive:  -sexual vs asexual  -reproductive cycle  -internal vs external  fertilization  -patterns of reproduction  -metamorphosis  -amniotic egg & mammal  --Thermoregulation  --Behavior  Kingdom Animalia – Invertebrata  Kingdom Animalia –  Nonvertebrate Chordata  Kingdom Animalia – Vertebrata | 24.1, 24.2,  25.1  25.2  25.3    25.4  26.1  26.2  26.3  26.4  24.4  DOL 31-45  DOL 46-47  DOL 48-64 |
| **Theory of Evolution by Natural Selection** | 6-8 | Fossil Types  Index Fossils & Fossil Dating  Geologic Time Scale  Voyage of the Beagle  Theory of Evolution by Natural  Selection  Artificial Selection  Supportive Evidence of Natural  Selection  Patterns of Natural Selection  Patterns of Theory of Evolution by  Natural Selection  Origins of Life on Earth | 20.1  20.1 (pgs 644-645)  20.1 (pgs 646-647),  17.1  17.2, 17.3  17.1 (pg 554)  17.3 (pgs 558-559), 17.4  20.2  20.2  20.3 |
| **Ecology** | 8-11 | Terminology & Relationships  Trophic Levels  Food Chains & Webs  Cycles of Matter  Biomes – Aquatic  Biomes – Terrestrial  Population Dynamics  Biodiversity, Ecosystems &  Resiliance  Humans & Global Change  --Ecological Footprint  --Causes & Effects of Global  Change  --Measuring & Responding to  Change  --Sustainability | 3.1, 3.2, 6.1  4.1, 4.2  4.2  4.3  3.3  3.3  5.1-5.3  6.3    7.1  7.2  7.3  7.4 |