Ecological Biology Content Calendar

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:	24.1, 24.2, 25.1 25.2 25.3 25.4 26.1 26.2

		-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	 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