

# Biology I Syllabus

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Week 1 -	Student Information Rules & Guidelines Safety Contract Gateway Cards Lab Equipment Root Words Chapter 1 - Biology in the 21 <sup>st</sup> Century Rainbow Lab Formal Lab Report	Week 9 -	Frontiers of Biotechnology Copying DNA DNA Fingerprinting Genetic Engineering Gel Electrophoresis
Week 2 -	Chapter 2 - Chemistry of Life Organic Molecule Lab	Week 10 -	Principles of Evolution Theory of Natural Selection
Week 3 -	Chapter 3 - Cell Structure & Function Microscope Lab Gateway Vocabulary Cards Plant & Animal Cell Lab Cell Model Diffusion Lab	Week 11 -	The Evolution of Populations Genetic Variation Speciation Through Isolation Natural Selection in Populations
Week 4 -	Chapter 4 - Cells and Energy Photosynthesis & Respiration Lab	Week 12 -	The History of Life The Fossil Record Geologic Time Scale
Week 5 -	Chapter 5 - Cell Growth and Division Mitosis in Plant/Animal Cells Lab Asexual Reproduction Lab	Week 13 -	Principles of Ecology Biotic and Abiotic Factors Energy in Ecosystems Food Chains and Food Webs Cycling of Matter Pyramid Models
Week 6 -	Meiosis and Mendel Stages of Meiosis Mendelian Genetics	Week 14 -	Interactions in Ecosystems Habitat & Niche Community Interactions Population Density & Growth
Week 7 -	Extending Mendelian Genetics Patterns of Inheritance Human Genetics and Pedigrees	Week 15 -	The Biosphere Climate Biomes
Week 8 -	From DNA to Proteins DNA Structure DNA Replication Transcription & Translation Mutations Extract DNA	Week 16 -	Human Impact on Ecosystems Human Population Growth Air & Water Quality
		Week 17 -	The Tree of Life Linnaean System of Classification Dichotomous Keys Cladograms

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