

AP Science Course Over and Course Comparison

AP Biology:

Big Ideas: Evolution, Energetics, Information storage and Transition, System Interactions

Unit 1: Chemistry of Life

Unit 2: Cell Structure and Function

Unit 3: Cellular Energetic

Unit 4: Cell Communication and Cell Cycle

Unit 5: Heredity

Unit 6: Gene Expression and Regulation

Unit 7: Natural Selection

Unit 8: Ecology

AP Chemistry:

Big Ideas: Scale, Proportion and Quality, Structure and Properties, Transformations, and Energy

Unit 1: Atomic Structure and Properties

Unit 2: Molecular and Ionic Compound Structure and Properties

Unit 3: Intermolecular Forces ad Properties

Unit 4: Chemical Reactions

Unit 5: Kinetics

Unit 6: Thermodynamics

Unit 7: Equilibrium

Unit 8: Acids and Bases

Unit 9: Applications of Thermodynamics

AP Environmental Science:

Big Ideas: Energy Transfer, Interactions between Earth Systems, Interactions between Different Species and the Environment, Sustainability

Unit 1: The living World: Ecosystems

Unit 2: The living World: Biodiversity

Unit 3: Populations

Unit 4: Earth Systems Recourses

Unit 5: Land and Water Use

Unit 6: Energy Resources and Consumption

Unit 7: Atmospheric Pollution

Unit 8: Aquatic and Terrestrial Pollution

Unit 9: Global Change

AP Physics:

Big Ideas: Systems, Fields, Force Interactions, Change, Conservation, Waves

Unit 1: Kinematics

Unit 2: Dynamics

Unit 3: Circular Motion and Gravitation

Unit 4: Energy

Unit 5: Momentum

Unit 6: Simple Harmonic Motion

Unit 7: Torque and Rotational Motion

Unit 8: Electric Charge and Eclectic Force

Unit 9: DC Circuits

Unit 10: Mechanical Waves and Sound

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