



Online Courses for High School Students
1-888-972-6237

Biology / Living Environment Credit Recovery

Credit Recovery - Make Up Courses

A diagnostic driven credit recovery course is designed to give an expanded opportunity for students who did not succeed the first time in the course. Students are given the opportunity in each learning unit to demonstrate their knowledge in that area of study. If they demonstrate competency in their unit assessment they will be presented with the following unit. If they do not demonstrate competency then they are required to do the entire unit.

Requirement: For a student to take a credit recovery course, they must have already taken the class unsuccessfully and have the appropriate seat time.

COURSE DESCRIPTION:

This course is an introduction to general biology. It will include the fundamental principles of living organisms including physical and chemical properties of life, cellular organization and function, the transfer of energy through metabolic systems, cellular reproduction, the classification of living things, and the six kingdoms of life. The main focus is to present biological information in an understandable and straight forward way that will capture the student's interest dealing with up-to-date principles and concepts.

REQUIRED TEXT: No required text for this course.

COURSE OUTLINE:

Unit 1: The Nature of Science and Biology

- Section 1 - Introduction to Biology
- Section 2 - Chemistry of Life

Unit 2: Photosynthesis and Cellular Respiration

- Section 1 - Energy
- Section 2 - Photosynthesis: Food Production
- Section 3 - Cellular Respiration

Unit 3: Cell Structure

- Section 1 - Cell Structure
- Section 2 - Cell Membrane: Structure and Function
- Section 3 - Chromosomes and Cell Reproduction
- Section 4 - Meiosis and Sexual Reproduction

Unit 4: Genetics

- Section 1 - Mendel and Heredity
- Section 2 - The Chromosome Theory Of Inheritance
- Section 3 - Human Genetic Traits
- Section 4 - How Proteins Are Made
- Section 5 - Protein Synthesis: From Gene to Protein
- Section 6 - Biotechnology and the Genetics Revolution

Unit 5: Evolution

- Section 1 - Evolution: Descent With Modification
- Section 2 - Evolution and Genetics

Unit 6: History of Life on Earth

- Section 1 - Fossils
- Section 2 - The Precambrian: Birth of a Planet and Establishment of Life
- Section 3 - The Paleozoic: The Time of Ancient Life
- Section 4 - The Mesozoic Era: The Age of Dinosaurs
- Section 5 - The Cenozoic: Age of Mammals and Birds

Unit 7: Biological Diversity and Classification

- Section 1 - Taxonomy
- Section 2 - Prokaryotes: Bacteria and Archaea
- Section 3 - Domain Eukarya: Evolution of Eukaryotes
- Section 4 - The Plant Kingdom
- Section 5 - Kingdom Fungi
- Section 6 - Kingdom Animalia
- Section 7 - Phylum Annelida: Segmented Worms

Unit 8: Plant Structure

- Section 1 - Plant Organs, Tissues, and Cells
- Section 2 - Flowering Plant Reproduction
- Section 3 - Plant Hormones, Nutrition, and Transport

Unit 9: Animal Organization

- Section 1 - Animal Cells and Tissues
- Section 2 - Animal Organ Systems and Homeostasis
- Section 3 - The Integumentary System: Protection and Senses
- Section 4 - The Circulatory System: Transport of Materials Within the Body
- Section 5 - The Lymphatic System and Immunity: The Body's Defense
- Section 6 - The Digestive System: Getting Food and Nutrients Into the Body
- Section 7 - Control of the Body Part I: The Nervous System
- Section 8 - Muscular and Skeletal Systems
- Section 9 - The Respiratory System
- Section 10 - The Reproductive System and Human Development

Unit 10: Ecology

- Section 1 - Population Growth
- Section 2 - Community and Ecosystem Dynamics
- Section 3 - The Biosphere and Mass Extinctions