

Course Description:

This biology course covers the basics of genetics and the technology used to better understand it. Students will discover how organisms have evolved due to natural selection. Students will also explore ecology, including how matter and energy flow through organisms and their ecosystems.

Course Objectives:

- Apply ethical guidelines to biological research.
- Engage in argument about the ethical implications of current biotechnology.
- Model the flow of matter and energy in ecosystems and how changes to the flow affect organisms in their environment.
- Evaluate topics in biology to better understand the basics of genetics, DNA and the genetic code, genomics, evolution, and ecology.

Required Materials:

In course.

Course Overview:

Unit 1: Genetics

Unit 2: DNA and Genetic Code

Unit 3: Genomics

Unit 4: Evolution

Unit 5: Ecology

Unit 6: Review and Final Exam