

COURSE TITLE: Biology I  
COURSE LENGTH: 1 year  
COURSE CREDIT: 1 credit

COURSE TYPE: required  
GRADE LEVEL: 11  
PREREQUISITE: n/a

COURSE GOALS:

1. Students will define biology as a science.
  2. Students will identify the themes of biology and the characteristics of life.
  3. Students will gather information about carbohydrates, lipids, proteins, and nucleic acids.
  4. Students will explain the structures and function of cells.
  5. Students will research the structure and function of DNA and RNA.
  6. Students will describe Mendelian genetics and basic heredity.
  7. Students will describe the taxonomy and characteristics of the structures and functions of arthropods and mammals.
  8. Students will describe the taxonomy and characteristics of the structures and functions of various plant species.
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COURSE CONTENT:

1. Biology as a science
2. Molecules required by living organisms
3. Structure and function of cells
4. DNA and RNA function and basic heredity
5. Animal taxonomy and characteristics
6. Plant taxonomy and characteristics