

## **BIO 141: General Biology, part I**

### **Course description**

BIO 141. GENERAL BIOLOGY I. Basic principles of the life sciences providing the foundation for further study of biology. 3 lectures and 3 hours of laboratory weekly. Prerequisite: Successful completion of ENG 101/RCA 021 or satisfactory score on SAT for exemption. Corequisite: MAT 140 or MAT 143. Offered in fall and spring semesters. *4 credits*

**Goals & Objectives:** TBA

### **Topics covered**

- Scientific method
- Cell biology
  - o Cell structure
  - o Basic biochemistry
  - o Energy, respiration & photosynthesis
  - o Cell division: meiosis & mitosis
- Genetics
  - o Inheritance
  - o DNA replication, transcription & translation
  - o Gene control & mutation
  - o Population genetics
  - o Biotechnology
- Evolution
- Classification
- Viruses, Bacteria, and Eukarya