

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