



BIO 121: Fundamentals of Biological Science I

This course is designed for science majors. An examination of three areas of contemporary biological science including selected topics in chemistry, necessary as background for cell biology, the structure and function of cells with emphasis on reproduction, membrane functions, and cell energetics, and the molecular mechanisms of genetic control and patterns of inheritance. Prerequisite: One year of high school biology or chemistry with a grade of C or better or CHM 090 with a grade of C or better. Three lecture hours and three laboratory hours per week. Instructional Support Fee applies. Gen. Ed. Competencies Met: Scientific Reasoning and Discovery.

Course Student Learning Outcomes

1. Describe the major biochemical processes that are important for life, including respiration, photosynthesis, molecular transport, intercellular communication, cell division. 2. Explain the importance, functions and components of the cell and cell membrane. 3. Describe the role of DNA as the basis for inheritance and solve a variety of genetics problems. 4. Apply the scientific method to design an experiment; and effectively communicate results in written and oral form. 5. Interpret a variety of scientific writing, including primary and secondary sources in Scientific Journals.

Credits: 4

Program: Biology