BIOL 171 Laboratory Principles of Applied Bioscience

BIOL 171 LABORATORY PRINCIPLES OF APPLIED BIOSCIENCE

The laboratory introduces students to practical methods in preparing materials, reagents and media for conducting biological investigations and products of genetic engineering. Students will learn to measure and prepare solutions of various concentrations and pH, how to use basic chemistry and biological instrumentation such as digital scales, pipettes and micropipettes, centrifuges, and vertical and horizontal electrophoresis apparatuses. Students will plan and conduct biological experiments using the scientific method and employing modern laboratory methods and instrumentation. Data will be analyzed using spreadsheet software for tabulation and graphing. Teamwork, responsible lab technique, and proper and thorough notebook keeping will be emphasized. Letter Grade Only. Degree Credit.

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in, BIOL 170 or equivalent.

AA/AS Degree Requirements: Area 9B2

Transfer Credit: CSU (CSU GE Area B3), UC (IGETC Area 5C)