

BIOLOGY LAB (BIOL)

BIOL 101 INTRO TO BIO SCI LAB (1 Hour)

Laboratory experience designed to re-enforce lecture materials in BIO 101. Primarily, the activities will involve the study of the basic principles in Biology including cell structures, metabolism, photosynthesis, genetics, etc. (F, S, Sum)

BIOL 103 ENVIRONMENTAL SCIENCE LAB (1 Hour)

Laboratories will consist of demonstrations of lecture materials as well as films and outside speakers relative to each week's topic. Field trips will be planned when appropriate. (F, S, Sum)

BIOL 111 GENERAL BIOLOGY LAB (1 Hour)

Prerequisite: Concurrent enrollment in BIO 111.

Laboratory experiments designed to study the principles of metabolism, photosynthesis, genetics and other principles basic to biology. (F, S, Sum)

BIOL 112 GENERAL BIOLOGY LAB (1 Hour)

Continuation of laboratory experiments begun in BIOL 111. Exercises will complement those topics covered in BIO 112. (F, S, Sum)

BIOL 115 GENERAL ZOOLOGY LAB (1 Hour)

Laboratory exercise involving the basic structure of protozoans through chordates. Laboratory must be taken with lecture (BIO 115). (F, S, Sum)

BIOL 119 GENERAL BOTANY LAB (1 Hour)

Laboratory exercises pertaining to plant morphology, plant taxonomy, plant physiology, and lower and higher plants are conducted. Laboratory must be taken with the lecture. (F, S, Sum)

BIOL 200 INTRO TO CELL BIOLOGY LAB (1 Hour)

Prerequisite: BIO112, C or better.

Designed to illustrate genetic principles through laboratory experiences. Studies on *Drosophila* and plant genetics are utilized. Must be taken with lecture.

BIOL 209 Principles of Genetics Lab (1 Hour)

BIOL 213 PRINCIPLES OF MICROBIOLOGY LAB (1 Hour)

Methods for isolating pathogenic bacteria and determining their significant properties. Laboratory must be taken with lecture. (F, S, Sum)

BIOL 234 HUMAN ANATOMY & PHYSIOLOGY LAB (1 Hour)

BIOL 235 HUMAN ANATOMY & PHYSIOLOGY LAB (1 Hour)

BIOL 313 INTRODUCTION TO MICROBIOLOGY L (1 Hour)

Laboratory designed to acquaint students with techniques for culturing and identifying bacteria and fungi. Must be taken with lecture. (F, S, Sum)

BIOL 318 INTRODUCTORY GENETICS LAB (1 Hour)

Prerequisite: BIO 111, 112, 115, and 119.

Designed to illustrate genetic principles through laboratory experiences. Studies on *Drosophila* and plant genetics are utilized. Must be taken with lecture. (F, S, Sum)

BIOL 395 Principles of Biochemistry Lab (1 Hour)

This course will cover the theory and practice of biochemical techniques commonly used in biochemical research. Basic techniques for the purification and/or analysis of biomolecules will include chromatographic, spectrophotometric, and electrophoretic methods of analysis as well as enzyme kinetics. (F, S, SUM)

BIOL 406 HUMAN ENVIRNMNT & NAT SYSM LAB (1 Hour)

Laboratory associated with pollution, energy, transportation, drugs, etc.

BIOL 413 PRINCIPLES OF HUMAN NUTRIT LAB (1 Hour)

Laboratory activities to develop techniques for diet evaluation, qualitative and quantitative analyses of food for protein, carbohydrates, fat and mineral content. (F, S)

BIOL 423 ECOLOGY LABORATORY (1 Hour)

Laboratory exercises on relationships among ecosystems. Must be taken with lecture. (F, S)

BIOL 425 INTRODUCTN TO MARINE BIOLOGY L (1 Hour)

Field trips, collection, preservation techniques, classification and identification of marine organisms with emphasis on structure of the marine environment. Must be taken with lecture. (F, S)

BIOL 440 CELL BIOLOGY LAB (1 Hour)

Prerequisite: BIOL 111 and CHML 242.

Experimentation to develop techniques for cell fractionation; introduction to spectrophotometry, electrophoresis and chromatography. (S)

BIOL 441 HISTOLOGY LAB (1 Hour)

Exercises studying the microanatomy of tissues and organ systems. Must be taken with BIO 441. (F, S, Sum)

BIOL 447 Introduction to Oceanography Lab (1 Hour)

Prerequisite: Must be taken with BIOL 447.

This course provides an introduction to oceanographic gear, its application methodology and sampling techniques; field work in practical applications.

BIOL 470 HUMAN PHYSIOLOGY LAB (1 Hour)

Use of instrumentation for diagnostic studies of normal physiological processes with reference to certain abnormal conditions. (F)