

BIOLOGY (BIOU)

BIOU 101 Introduction to Biology

This course introduces the principles and concepts of biology with an emphasis on the impact of the human footprint on our planet. Students will examine basic cell structure and function, metabolism, cell growth, and genetics. Students will also explore concepts of evolution and the interaction between living organisms and their environment. This course is only offered through the School of Extended Education. 3 credits.

BIOU 101L Introduction to Biology Laboratory

In this lab, students will learn about lab safety and investigate topics such as the microscope, cells, and the scientific method. Students will also gain an understanding of basic chemistry, cells structure, plant and animal dissections, energy systems, mitosis and genetics. This course is only offered through the School of Extended Education. 1 credit.

BIOU 201 Human Anatomy

Prerequisite: BIOU 101.

This course provides a study of the anatomical structure of the human body. Emphasis on gross and histological study of the skeletal, muscular, cardiovascular, respiratory, nervous, endocrine, lymphatic, digestive, urinary, and reproductive systems. This course is only offered through the School of Extended Education. 3 credits.

BIOU 201L Human Anatomy with Laboratory

Prerequisite: BIOU 101.

This is the laboratory part of Human Anatomy and is taken in conjunction with the lecture course. An introduction to common laboratory techniques and the process of science is presented. The laboratory experiments are designed to complement the topics presented in the companion lecture course. Topics include human cadaver, anatomical models, histology slides, cat dissections, fetal pig dissections. This course is only offered through the School of Extended Education. 1 credit.

BIOU 202 Human Physiology

Prerequisite: BIOU 101 and BIOU 201.

Presents the physiology of human body systems with emphasis upon functions of muscular, cardiovascular, respiratory, nervous, endocrine, lymphatic, digestive, urinary, and reproductive systems. This course is only offered through the School of Extended Education. 3 credits.

BIOU 202L Human Physiology Laboratory

Prerequisite: BIOU 101 and BIOU 201.

This is the laboratory part of Human Physiology and is taken in conjunction with the lecture course. The laboratory experiments are designed to complement the topics presented in the companion lecture course. Topics include the physiology of cell transport mechanisms, skeletal muscle, nerve impulses, endocrine, cardiovascular, respiratory, digestion, renal, acid-base balance, blood analysis and serological testing. This course is only offered through the School of Extended Education. 1 credit.

BIOU 203 Microbiology

Prerequisite: BIOU 101.

This course is an Introduction to microorganisms as biological entities. Topics include microscopy, cell structures and functions, metabolism, genetics, disease transmission, host response to microbial invasion, control of infectious disease, impact of microbes on the environment and applications of microorganisms to industrial and environmental problems. This course is only offered through the School of Extended Education. 3 credits.

BIOU 203L Microbiology Laboratory

Prerequisite: BIOU 101.

This is the laboratory part of Human Physiology and is taken in conjunction with the lecture course. The laboratory experiments are designed to complement the topics presented in the companion lecture course. Topics include the physiology of cell transport mechanisms, skeletal muscle, nerve impulses, endocrine, cardiovascular, respiratory, digestion, renal, acid-base balance, blood analysis and serological testing. This course is only offered through the School of Extended Education. 1 credit.