

Biology (BIO)

BIO 100 Biology for Non-Science Majors

IAI – L1 900L

4 Hours

Prerequisites: None

5 hours weekly (3-2)

A course designed specifically for the non-science major student. The course provides laboratory experience and lecture concepts that help the non-science major student understand the foundations of biology. Emphasis is placed on the application of this knowledge to human concerns and endeavors. Topics to be covered include but are not limited to: process of science, biochemistry, cell science, metabolism, genetics, molecular biology, biotechnology, evolution, structure and function, and ecology.

BIO 101 Biological Science for Science Majors I

IAI – L1 910L, IAI – BIO 910

4 Hours

Prerequisites: None

5 hours weekly (3-2)

This course is designed for science majors. It is a lecture-lab course which includes the following: an introduction to biochemistry, molecular genetics, cell structure, function, and processes. The scientific method is presented in lab.

BIO 102 Biological Sciences II

IAI – L1 910L, IAI – BIO 910

4 Hours

Prerequisites: None

5 hours weekly (3-2)

Organismal biology, ecology, and evolution. An introduction to structure and function of major groups of microorganisms, fungi, animals, and plants. Emphasis on evolutionary relationships and ecological principles. Laboratory required.

BIO 105 Humans in Society

IAI – L1 904L

4 Hours

Prerequisites: None

5 hours weekly (3-2)

This course covers the relationship between cellular and molecular biology, human evolution, and heredity, human impact on society, ecology, evolution, anatomy and physiology as it relates to humans. The course includes laboratory activities and lecture concepts suited for a beginning course into the functioning human body and its impact in the natural community. Embedded throughout the course, there will be an emphasis on developing scientific process skills.

BIO 205 Human Anatomy and Physiology I

4 Hours

Prerequisites: None

5 hours weekly (3-2)

A study of the structure, functions, and homeostatic mechanisms of the normal human body. Subjects covered include: fundamentals of the chemical basis of life; cell structure and physiology; tissues; integumentary, skeletal, muscular, central and autonomic nervous systems; and special senses. The laboratory

BIO 206 Human Anatomy and Physiology II

4 Hours

Prerequisites: None

5 hours weekly (3-2)

A study of the structure, function, and homeostatic mechanisms of the endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems; defense mechanisms of the body; pregnancy; embryonic development; and inheritance. The laboratory includes dissection of cat and large mammal heart and appropriate physiological experiments.

BIO 225 Genetics

IAI – L1 906

3 Hours

Prerequisites: None

3 hours weekly (3-0)