

BIOLOGY (BIOL)

BIOL 109 Plants and Society (3 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Emphasizes scientific inquiry through selected concepts in plant biology, such as organization, function, heredity, evolution and ecology, using plants as the type of organism. Topics include plant chemistry, plant structure, growth, genetics, evolution, physiology, reproduction, ecology and the importance and inter-relationships between plants and humans. Course intended to satisfy a non-lab three credit life science general education requirement. IAI Code: L1 901. Typical offering schedule: annual

BIOL 110 Principles of Biology (4 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Lab hours: 2

Emphasizes scientific inquiry and principles common to all major fields of biology. Biological issues with personal and social implications will be introduced to enable students to make informed decisions. Covers such topics as cell biology, heredity, ecology and evolution. Satisfies the life science requirement for non-science majors and some science majors. IAI Code: L1 900L. Typical offering schedule: fall, spring

BIOL 116 Intro To Ecology (4 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Lab hours: 2

Presents how various organisms relate to their environments. Examines the principles of ecology as they relate to environmental problems. Emphasizes personal actions and local problems as they relate to more global issues. Emphasis is placed on the need of plants and animals and how human activities affect them. Satisfies the life science general education requirement for A.A. and A.S. degrees. IAI Code: L1 905L. Typical offering schedule: fall, spring

BIOL 117 Nutrition (3 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

A study of the basic elements of nutrition. Emphasis is placed on meeting normal nutritional needs for individuals of all ages and cultural backgrounds. Students are taught diet evaluation, basis of food choices, the roles of proteins, carbohydrates, fats, vitamins, and minerals in proper nutrition as well as specifics of sports, infant, and geriatric nutrition. Note: This course does not satisfy IAI requirements for general education credit. Typical offering schedule: fall, spring

BIOL 118 Local Flora (2 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: .5

Lab hours: 3

Repeatable: 3 times

Focuses on the native plants of northern Illinois. Through the use of taxonomic keys and field trips, students will become familiar with the plants in bloom at the time the course is taken. A maximum of six (6) credit hours may be earned in this course. Typical offering schedule: as needed

BIOL 119 Field Ornithology (2 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 1

Lab hours: 2

Focuses on identification, behavior, ecology and conservation of the most successful group of vertebrates: birds. We will use the Highland Community College Collection of study skins to prepare for field experiences. During the course, students will visit a variety of habitats in northern Illinois and become familiar with resident and migrant birds. Typical offering schedule: spring

BIOL 120 Found of Anatomy & Physiology (5 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 4

Lab hours: 2

Introduces the student to the structure and function of the human body. The entire human body is studied via a systematic approach. Laboratory experiences illustrate the relationships between structure and function in addition to providing clinical correlations. Typical offering schedule: fall, spring

BIOL 124 Microbes and Society (3 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Emphasizes scientific inquiry through selected concepts in biology including organization, function, heredity, evolution and ecology, using microbes as the type of organism. Topics include a survey of microorganisms, the role of microorganisms in health and disease, ecology of microbes, economic and social impact of microbes, and an introduction to the role of microorganisms in biotechnology. Course intended to satisfy a three-credit life science requirement for non-science majors. This course is not intended for students who wish to pursue a major in the health professions. IAI Code: L1 903. Typical offering schedule: spring

BIOL 145 Human Biology (3 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Course emphasizes broad scientific inquiry using humans as the study organism. Topics include cell and molecular biology, anatomy, physiology, health, disease, genetics, evolution and ecology. Students will develop scientific literacy and enable students to make informed decisions on issues of personal and social importance. Course intended to satisfy a three-credit life science requirement for non-science majors. This course is not intended for students who wish to pursue a major in the health professions. IAI Code: L1904. Typical offering schedule: fall

BIOL 208 Biology I: Cell & Molecular (4 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Lab hours: 3

Prerequisite: RDG 120 or LTRE 097 or ESL 097 with minimum grade of C. And MATH 067 with minimum grade of C or Academic placement measures.

Introduces biological science students to molecular and cellular processes common to all living organisms. Course will include an overview of cell structures, cell signaling, cell reproduction, cellular metabolism, genetic information flow, theory of inheritance, and genetic engineering. IAI Codes: L1 910L, BIO 910. Typical offering schedule: fall

BIOL 209 Biology II: Biodiversity/Evolu (4 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Lab hours: 3

Prerequisite: BIOL 208.

Introduces biological science students to higher levels of biological organization. Topics of study will consist of evolution, characteristics and classification of organisms, plant structure and function, animal structure and function, and the principles of ecology. IAI Codes: BIO 910. Typical offering schedule: spring

BIOL 211 General Microbiology (4 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Lab hours: 3

Prerequisite: BIOL 110 or BIOL 120 or BIOL 213 or CHEM 120 or CHEM 123 or CHEM 221 with a minimum grade of C or Academic placement measures.

Familiarizes students with the classification, morphology, and physiology of bacteria, viruses, and other microbes. This course provides students with a foundation for entering the various health and biological professions. Typical offering schedule: fall, spring

BIOL 213 Anatomy and Physiology I (4 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Lab hours: 3

Prerequisite: LTRE 097 or RDG 120 or ESL 097 with minimum grade of C or Academic placement measures.

This course is a detailed scientific study of the structure and function of the human body. The integumentary, skeletal, muscle, and nervous systems are studied from the molecular and cellular levels up to the organ systems. Laboratory work includes experiments in physiology, organ, and animal dissection, as well as study of a human cadaver. Typical offering schedule: fall, spring

BIOL 214 Anatomy and Physiology II (4 Credit Hours)

Type of credit: Baccalaureate/Transfer

Lecture hours: 3

Lab hours: 3

Prerequisite: BIOL 213 minimum grade of C.

Continued detailed study of the structure and function of the human body. The endocrine, circulatory, digestive, respiratory, excretory, and reproductive systems are studied to the cellular and molecular levels. Lab work includes experiments in physiology, organ, and animal dissection, as well as study of a human cadaver. Typical offering schedule: fall, spring