

# Biology

## BIOL 121 Introductory Biology (4 credit, 3 lecture, 2 lab)

IAI L1 900L

A course emphasizing scientific inquiry through selected concepts of biology including: chemical and cellular organization, function, genetics, evolution and ecology. Biological issues with personal and social implications will be introduced to enable students to make informed decisions. Laboratory required.

## BIOL 141 Environmental Science (4 credit, 3 lecture, 2 lab)

IAI L1 905L

A course that examines ecological principles in relation to environmental problems. Emphasizes basic ecological principles, current environmental issues and possible solutions. Laboratory required.

## BIOL 161 Intro to Human Anatomy & Physiology (4 credit, 3 lecture, 2 lab)

An introduction to human anatomy and physiology. Topics include: organization, cells, metabolism, tissues and systems. Laboratory required with dissection a component.

## BIOL 221 General Biology I (4 credit, 3 lecture, 2 lab)

IAI L1 900L, BIO 910

Cellular and Molecular Biology. An introduction to biochemistry, molecular genetics, cell structure, function and processes. Laboratory required. **Pre-Requisite:** High school biology; previous or concurrent enrollment in CHEM 121.

## BIOL 222 General Biology II (4 credit, 3 lecture, 2 lab)

IAI BIO 910

Organismal Biology, Ecology, and Evolution. An introduction to structure and function of major groups of microorganisms, fungi, animals and plants; structure and function of representative organ systems in animals and plants. Topics will also include evolutionary relationships and ecological principles. Laboratory required. **Pre-Requisite:** BIOL 221.

## BIOL 242 Microbiology (4 credit, 3 lecture, 2 lab)

Basic concepts of microbiology. Topics include: cell structures, growth requirements, diversity and classification of microbes, bacterial genetics, pathology, immunology. Laboratory required. **Pre-Requisite:** "C" in high school chemistry or CHEM 123 or CHEM 121

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## BIOL 261 Human Anatomy and Physiology I (4 credit, 3 lecture, 2 lab)

A comprehensive study of the human anatomy and physiology of the integumentary, skeletal, muscular, nervous and sensory systems. Foundation topics discussed as a preface include: organization of the body, biological chemistry, cells, metabolism and tissues. Laboratory required with dissection a component. **Pre-Requisite:** "C" in high school chemistry or CHEM 123 or CHEM 121.

## BIOL 262 Human Anatomy & Physiology II (4 credit, 3 lecture, 2 lab)

A comprehensive study of the endocrine, cardiovascular, lymphatic, digestive, respiratory, renal and reproductive systems. Additional topics include: nutrition, electrolytes, acid-base balance, embryology, growth and genetics. Laboratory required with dissection a component. **Pre-Requisite:** BIOL 261- Human Anatomy and Physiology I.