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## Biology

All 5 Credit Hour Biology courses include a Lab

BIOL 120 (0431) General Biology KRSN BIO1010\*\*

Prerequisite: None

Credit Hours: 5

This course is organized around concepts and themes fundamental to an understanding of the nature of living organisms, their diversity, and their interactions with the environment and each other. To understand the complex nature of living organisms, topics of basic chemistry, biochemistry, cell structure, metabolism, Mendelian genetics, molecular genetics, and evolution, are discussed. Laboratory exercises are designed to emphasize and support the course concepts and stress the scientific methods of investigation.

BIOL 122 (0404) Environmental Life Science KRSN BIO1040\*\*

Prerequisite: None

Credit Hours: 5

The natural science course provides an overview of life science with emphasis placed on basic principles and unifying concepts of environmental science. This course includes general biology concepts in relation to human interaction with the world around them. Students will gain the scientific foundation and tools needed to apply critical thought to contemporary environmental issues.

BIOL 128 Principles of Biology I KRSN BIO1020\*\*

Prerequisite: None

Credit Hours: 5

A course organized around concepts fundamental to the better understanding of living organisms for the biology majors who will take advanced biology courses, and for those entering the medical and related fields. Content covered will include nature of science, basic chemistry, biochemistry, cellular structure and function, metabolism, energy transfer, cell division, Mendelian and molecular genetics, and gene expression. Laboratory experiments are selected to complement the material covered in lecture to enhance student understanding.

BIOL 129 Principles of Biology II KRSN BIO1030\*\*

Prerequisite: BIOL 128 Principles of Biology I, or permission of instructor.

Credit Hours: 5

A course specifically designed for the biology majors. The course is organized around concepts fundamental to an understanding of the principles of organism biology. Topics of Classification, taxonomy, evolution, evolutionary relationships, kingdoms, phyla, life cycles, plant anatomy and physiology, animal anatomy and physiology, biological basis of behavior, and ecological interactions are discussed in the course. Laboratory studies include the culture and growth of bacteria and examine their ubiquity, different protists, fungi, plant structures, and animal dissection.

BIOL 130 (0412) Anatomy and Physiology KRSN BIO2020\*\*

Recommended Prerequisite: None

Credit Hours: 5

This course is designed for one semester and is a comprehensive discipline of Biology. Anatomy and Physiology (A&P) involves both lecture and laboratory study of the human body. The course covers the competencies for anatomy and physiology at the college level as set forth by the State of Kansas Core Competency Committee. The course will integrate the structure and function of the human body. This course meets the requirements for those interested in nursing, respiratory care radiography, physical education, biology majors, minors, and for other health sciences. Lectures and labs are presented in a logical sequence by body systems

\*Refer to the Placement Testing Procedure 3.22, page 22 \*\*Refer to Course Transfer, page 17

**BIOL 201 (0411) Microbiology KRSN BIO2040\*\***

Prerequisite: BIOL 120 General Biology with Lab or BIOL 130 Anatomy and Physiology with lab

Credit Hours: 5

This course presents a study of microorganisms along with their morphological, physiological, and biochemical characteristics. It offers a comprehensive study of prokaryotic cell structure, microbial metabolism, microbial growth, methods of disinfection and sterilization, microbial genetics, classification, principles of disease and epidemiology, microbial mechanisms of pathogenicity, innate and adaptive immunity, and antimicrobial drugs. Though the main emphasis is on bacteria and virus, but protozoans, fungi and algae are also discussed.

Fundamental theories and laboratory techniques related to bacterial cell morphology, bacterial growth in different culture media, isolation, pure culture techniques, staining, and identification are illustrated throughout the semester.

## Business Administration

**BUAD 101 (0501) Introduction to Business KRSN BUS1020\*\***

Prerequisite: None

Credit Hours: 3

A study of different aspects of the business world such as marketing, production, finance, and human resource management.

**BUAD 104 (0505) Business Law I KRSN BUS2030\*\***

Prerequisite: None

Credit Hours: 3

An introduction to laws covering administrative law, tort law, and contracts. Sophomore standing is recommended.

**BUAD 105 (0506) Business Law II**

Prerequisite: BUAD 104 Business Law I

Credit Hours: 3

A study of laws covering sales, partnerships, corporations, real property, negotiable paper, insurance, security devices, bankruptcy, wills, and estates. Sophomore standing is recommended.

**BUAD 106 Principles of Leadership KRSN BUS2010\*\***

Prerequisite: None

Credit Hours: 3

Principles of Leadership is designed to provide students with an introduction to leadership styles, theories, and principles. By exploring these areas, students will have the opportunity to develop and improve their leadership skills.

**BUAD 110 (0545) Business Communications KRSN BUS 2040\*\***

Prerequisite: None

Credit Hours: 3

This course is designed to develop skills and knowledge necessary for effective business communications – both oral and written, and to provide experience in the application of these skills and knowledge in solving business communication problems.

**BUAD 205 Personal Finance KRSN BUS 1010\*\***

Prerequisite: None

Credit Hours: 3

Personal Finance introduces students to the importance of consumer financial issues. Students will gain knowledge of the principles of money management, consumer credit, insurance, investments and retirement planning.

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\*Refer to the Placement Testing Procedure 3.22, page 22 \*\*Refer to Course Transfer, page 17