

**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

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BUAD 215 Principles of Management KRSN BUS2020\*\*

Prerequisite: None

Credit Hours: 3

Principles of Management introduces the student to the functions of management: planning, organizing, leading and controlling. This includes concepts such as organizational cultures, ethics, decision making, dynamics of teams and leadership.

## Chemistry

All 5 Credit Hour Chemistry courses include a Lab.

CHEM 120 (1951) Introduction to Chemistry KRSN CHM1030\*\*

Prerequisite: MATH 096 Beginning Algebra or higher

Credit Hours: 5

This course provides a basic foundation in general chemistry. Course content includes nomenclature, acids and bases, nuclear chemistry, bonding, molecular structures, biological molecules, unit conversions, and solution chemistry. This course is recommended for students in health and science fields, for students preparing for CHEM 124 College Chemistry II, and students fulfilling general education requirements. The overall objectives to the course are as follows: To provide a body of knowledge concerning transformations and processes in chemistry. To provide insights into the nature of matter. To develop problem solving skills. To understand how the microscopic (atoms and molecules) effects the macroscopic (the visible world). To develop a sense of chemistry's societal importance, especially its impact on the environment, industry, and technology.

CHEM 124 (1961) College Chemistry I KRSN CHM1010\*\*

Prerequisite: MATH 100 Intermediate Algebra or higher

Recommended: CHEM 120 Introduction to Chemistry or 1 year High School Chemistry.

Credit Hours: 5

First course of a two-semester study of general chemistry. Course content includes nomenclature, stoichiometry, acids and bases, oxidation-reduction reactions, gas laws, thermo-chemistry, atomic structure, periodicity, bonding, molecular structures, and bonding theory. (Fall Semester)

CHEM 126 (1962) College Chemistry II KRSN CHM1020\*\*

Prerequisites: CHEM 124 College Chemistry I and MATH 115 College Algebra

Credit Hours: 5

A continuation of College Chemistry I with course content including kinetics, equilibrium thermodynamics, acid-base theories, electro-chemistry, and nuclear chemistry. (Spring Semester)

CHEM 204 (1972) Organic Chemistry I

Prerequisite: CHEM 124 College Chemistry I

Recommended Prerequisite: CHEM 126 College Chemistry II

Credit Hours: 5

First course of a two-semester study of the principles of organic chemistry. Course content includes organic nomenclature, reaction mechanisms elimination and substitution, and stereo-chemistry. Classes of compounds include alkanes, alkenes, ethers, alcohols and thiols. (Fall Semester)

CHEM 207 (1995) Organic Chemistry II

Prerequisite: Organic Chemistry I

Credit Hours: 5

Continuation of CHEM 204 Organic Chemistry I with course content extending into aldehydes, ketones, carboxylic acids and derivatives, aromatics, amines, and other classes of compounds, reaction mechanisms, and spectroscopy.\

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