

This course presents a study of microorganisms and their morphological, physiological, and biochemical characteristic response to the environment as well as their influence on the surroundings. Their relationship to the anatomy and physiology of the human body, aspects of parasitism, infection state, body defenses, and methods of control and prevention of infections will also be studied. Laboratory experiments will be conducted relating to bacterial growth, isolation and pure culture techniques as well as physiological characteristics of different microorganisms.

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

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 110 (0545) Business Communications

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.

Business Administrative Technology

OTEC 102 (0587) College Keyboarding

Prerequisite: None

Credit Hours: 3

This course is designed to develop machine control and mastery of the keyboard. The course emphasizes proper keyboarding techniques, accuracy, and speed, which can be applied to a variety of problems that the students are likely to meet in their personal life and/or in the business world.

OTEC 103 (0739) Microcomputer Applications I

Prerequisite: None

Credit Hours: 3

This course will teach the student specific areas of expertise in the computer area.

*Refer to the Placement Testing Procedure 3.22, page 23 ** Refer to Course Transfer, page 17

O TEC 106 (0588) Formatting

Prerequisite: O TEC 102 College Keyboarding or one or more units of keyboarding in high school

Credit Hours: 3

This course is designed to review business document formats, to build speed and accuracy, and to use decision-making skills to evaluate document formats and mailability. Applying written communication skills and demonstrating quality and efficiency in production are emphasized.

O TEC 111 (0551) Records Management & Database Applications

Prerequisite: None

Credit Hours: 3

This course is designed to present knowledge and skills that are needed in records management work. This course emphasizes the basic principles and procedures used in alphabetic, numeric, and subject filing methods for manual and automated records systems. Practice in application of filing rules is provided through the use of records management projects. Students will gain practice in document management and file management using Access database.

O TEC 113 (0523) Business Accounting

Prerequisite: None

Credit Hours: 3

Elementary accounting procedures including theory and practice associated with double-entry bookkeeping are introduced. Special emphasis is placed on the use of journal entries, accounting for and control of cash, and payroll accounting.

O TEC 119 (0530) Business Math

Prerequisite: Placement test scores equivalent to MATH 106 Applied Mathematics

Credit Hours: 3

Business decision-making usually involves business math. Business Math provides a background of general and specific knowledge of business math concepts for those students who plan to enter business programs. Students will develop skills using a 10-key adding machine by touch and using the numeric keypad of a computer.

O TEC 121 (0557) Office Procedures

Prerequisite: O TEC 102 College Keyboarding or one or more units of keyboarding in high school.

Credit Hours: 3

This course is the study and development of personal qualities, skills, and knowledge needed for success in clerical occupations, including how to find and "land" the right office position, writing letters, using postal and shipping services, handling mail, filing, using the telephone, transmitting business messages, using banking and credit services, and handling financial transactions.

O TEC 122 (0536) Office Internship I

Prerequisite: Enrollment in an Business Administrative Technology Program **or** permission of instructor

Credit Hours: 1-3

This course is designed to offer the student the opportunity to receive on-the-job training in office-related career occupations. Students may receive training through paid employment (part-time or full-time), or an unpaid internship (3-5 hours a week).

O TEC 123 (0537) Office Internship II

Prerequisite: Enrollment in an Business Administrative Technology Program **or** permission of instructor

Credit Hours: 3

This course is designed to offer the student the opportunity to receive on-the-job training in office-related career occupations. Students may receive training through paid employment (part-time or full-time), or an unpaid internship (3-5 hours a week).

O TEC 124 (5231) Medical Terminology KRSN HSC1030**

Prerequisite: None

Credit Hours: 3

Presents basic concepts and elements of medical terms pertaining to the study of the human body, and assists in the development of the ability to read and understand the language of medicine. This course will introduce the basic elements of medical terminology such as prefixes, suffixes, word roots, and combining forms. Commonly used abbreviations will also be addressed.

*Refer to the Placement Testing Procedure 3.22, page 23 ** Refer to Course Transfer, page 17

OTEC 125 (5232) Advanced Medical Terminology

Prerequisite: OTEC 124 Medical Terminology

Credit Hours: 3

This course will build on the knowledge gained in the previous Medical Terminology course. The course will again be outlined by body systems focusing on terminology associated with disease processes, related procedures and pharmaceutical treatment methods. Strong emphasis will be placed on the correct usage and spelling of terms. The student should already have a firm base knowledge of suffixes, prefixes and root words.

OTEC 128 (0607) Medical Transcription

Prerequisite: OTEC 102 College Keyboarding, or one or more units of keyboarding in high school; OTEC 140 Business English recommended.

Credit Hours: 2

Provides an overview of the medical transcription environment, the responsibilities of the transcriptionist, and the skills required. Focuses on the mechanics of transcription including transcription tools, the style and form of the transcriptionist, the various formats for medical reports, and medical terminology.

OTEC 133 (0609) Medical Coding ICDPrerequisite: OTEC 125 Medical Terminology **or** Medical Training

Credit Hours: 3

This course is designed to introduce the basic concepts of ICD-10-CM diagnosis coding. The class will provide hands-on experience in the application of diagnosis codes while following the official coding rules and guidelines. The student will gain an understanding of how to analyze clinical data for the purposes of coding and reimbursement.

OTEC 134 (0610) Medical Coding CPTPrerequisite: OTEC 133 Medical Coding ICD **or** instructor permission

Credit Hours: 3

This course is designed to study the concepts of Current Procedural Terminology (CPT Coding) along with HCPCS coding. This course is designed to provide practical application of the coding process using health documentation from patient charts. The student will gain an in-depth understanding of the wide variety of functions that these coding methods serve in the medical community and in health care administration management.

OTEC 136 (0574) Business Office Applications

Prerequisite: OTEC 106 Formatting

Credit Hours: 3

Through a realistic job simulation, the student is introduced to secretarial duties performed as an administrative assistant to a top executive. The student will make decisions, set priorities, maintain a tickler file, prepare tables and graphs, and compose correspondence. In addition, the student will be asked to prepare a formal job description of an executive assistant.

OTEC 137 (0576) Medical Office Application

Prerequisite: OTEC 106 Formatting

Credit Hours: 3

Through a realistic job simulation, the student is introduced to the administrative routines of a doctor's office and will perform various activities including preparing patients' charts, taking telephone messages, scheduling appointments, organizing patient files, and transcribing medical tapes. In addition, the student will be asked to prepare a formal job description of a medical office assistant.

OTEC 138 (0575) Legal Office Applications

Prerequisite: OTEC 106 Formatting

Credit Hours: 3

Through a realistic job simulation, the student is introduced to secretarial duties performed in a small law firm. The student will produce and format various legal documents, become familiar with terminology used in the legal profession, machine transcribe legal correspondence, and get an overall view of the day-to-day operating procedures of a legal office. In addition, the student will be asked to prepare a formal job description of a legal assistant.

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OTEC 140 (0507) Business English

Prerequisite: None

Credit Hours: 3

This course will emphasize the rules and accepted practices of English grammar in the contemporary business office. Emphasis will be on word choice, number style, capitalization, proofreading, abbreviations, and editing documents.

OTEC 155 (0535) Word Processing (Microsoft Word)

Prerequisite: OTEC 102 College Keyboarding

Credit Hours: 3

Word Processing (Microsoft Word) is a comprehensive hands-on course that provides users with the fundamentals (both conceptual and applied) they need to use word processing software. Students learn the basics and advanced features of Microsoft Word. They will use and develop the tools needed to apply this technology to business applications.

Chemistry

All 5 Credit Hour Chemistry courses include a Lab.

CHEM 120 (1951) Introduction to Chemistry KRSN CHM1030/1031/1032**

Prerequisite: MATH 96 Beginning Algebra, or MATH 106 Applied Mathematics, or High School Algebra

Credit Hours: 5

Lecture and laboratory. Lecture content includes unit conversions, acid-base reactions, and oxidation-reduction reactions, nomenclature, bonding, biochemistry, nuclear chemistry, gases, concentration units, and colligative properties. The laboratory supports the lecture and provides general lab techniques. Recommended for students in health and science fields, preparation for CH EM 124 College Chemistry I, and meets general education requirements.

CHEM 124 (1961) College Chemistry I KRSN CHM1010/1011/1012**

Prerequisite: MATH 100 Intermediate Algebra or 1 ½ years of High School Algebra.

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, thermochemistry, atomic structure, periodicity, bonding, molecular structures, and bonding theory. (Fall Semester)

CHEM 126 (1962) College Chemistry II KRSN CHM1020/1021/1022**

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, electrochemistry, 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 stereochemistry. 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 23 ** Refer to Course Transfer, page 17