

# Associate of Applied Science Administrative Assistant

2018-2019

## **McLENNAN COMMUNITY COLLEGE**

# **Degree Description**

This program prepares students for employment and advancement in information processing departments, as well as for positions as administrative assistants, office managers or executive secretaries. The duties range from operation of a single software application to operating and managing all application software for an office, department or company.

The emphasis is on executive-level information processing, including word processing, digital publishing, office procedures, transcription, electronic spreadsheet applications and advanced document formatting. Areas of employment include office management, banking, government and bookkeeping.

Semester I	Hours
POFT 1393 Special Topics: Introduction to Keyboarding <sup>1,2</sup> or POFT 2303 Speed and Accuracy Building	3 hours
POFT 1309 Administrative Office Procedures 1 <sup>5</sup>	3 hours
ACNT 1303 Introduction to Accounting I <sup>2</sup>	3 hours
POFT 1301 Business English	3 hours
POFT 1321 Business Math	3 hours
	15 hours

Semester II	Hours
PHIL 2306 Introduction to Ethics	3 hours
Math elective or Natural Sciences elective	3 hours
POFT 2312 Business Correspondence & Communication <sup>6</sup>	3 hours
ITSW 1301 Introduction to Word Processing <sup>2</sup>	3 hours
Speech elective 7	3 hours
	15 hours

Summer Semester	Hours
GOVT 2305 Federal Government or GOVT 2306 Texas Government or ECON 1301 Introduction To Economics	3 hours
	3 hours

Semester III	Hours
POFT 2301 Intermediate Keyboarding	3 hours
POFI 2340 Advanced Word Processing 5	3 hours
POFT 2386 Internship-Administrative Assistant/Sec <sup>3,5</sup>	3 hours
SOCI 1301 Introduction to Sociology or PSYC 2301 General Psychology	3 hours
	12 hours

Semester IV	Hours
ARTC 1313 Digital Publishing 12,6	3 hours
BMGT 1325 Office Management <sup>6</sup>	3 hours
ITSC 1309 Integrated Software Applications I	3 hours
POFT 2333 Advanced Keyboarding <sup>4</sup>	3 hours
POFT 2387 Internship-Administrative Assistant/Sec 3,6	3 hours
	15 hours

Total hours: 60 hours

1 May be waived if the student has taken a keyboarding course (touch method) or if the student can keyboard at least 30 words per minute. Keyboarding test is required.

2 May be eligible for articulation through the statewide ATC program. Please check with your high school counselor for more details.

3 Must meet Guidelines for Internships and have approval of the program director to enroll in this course.

This is a Capstone course, which brings together skills and knowledge learned in other classes and applies them in decision-making situations and in completing job tasks. Check for prerequisites. 4 5

Offered only in the fall semester.

6 Offered only in the spring semester.

7 SPCH 1311, 1315, 1321

# **Electives/General Education Courses**

## Math

MATH 1314 College Algebra	3 hours
MATH 1316 Plane Trigonometry	3 hours
MATH 1324 Mathematics for Business & Social Sciences	3 hours
MATH 1325 Calculus for Business & Social Sciences	3 hours
MATH 1332 Contemporary Mathematics (Quantitative Reasoning)	3 hours
MATH 1342 Elementary Statistical Methods	3 hours
MATH 2412 Pre-Calculus Mathematics	4 hours
MATH 2413 Calculus I	4 hours
PHIL 2303 Introduction to Formal Logic	3 hours

# **Natural Sciences**

BIOL 1406 Biology for Science Majors I	4 hours
BIOL 1407 Biology for Science Majors II	4 hours
BIOL 1408 Biology for Non-Science Majors I	4 hours
BIOL 1411 General Botany	4 hours
BIOL 1413 General Zoology	4 hours
BIOL 2401 Anatomy & Physiology I	4 hours
BIOL 2402 Anatomy & Physiology II	4 hours
BIOL 2404 Anatomy & Physiology (specialized)	4 hours
BIOL 2420 Microbiology for Non-Science Majors	4 hours
CHEM 1405 Introductory Chemistry I	4 hours
CHEM 1407 Introductory Chemistry II	4 hours
CHEM 1411 General Chemistry I	4 hours
CHEM 1412 General Chemistry II	4 hours
ENVR 1101 Environmental Science I (lab)	1 hours
ENVR 1301 Environmental Science I (lecture)	3 hours
ENVR 1102 Environmental Science II (lab)	1 hours
ENVR 1302 Environmental Science II - Lecture	3 hours
ENVR 1401 Environmental Science I (lecture + lab)	4 hours
ENVR 1402 Environmental Science II	4 hours
GEOL 1101 Earth Sciences I for Non-Science Majors (lab)	1 hours
GEOL 1301 Earth Sciences I for Non-Science Majors (lecture)	3 hours
GEOL 1401 Earth Sciences I for Non-Sciences Majors (lecture + lab)	4 hours
GEOL 1403 Physical Geology (lecture + lab)	4 hours
GEOL 1404 Historical Geology (lecture + lab)	4 hours
PHYS 1401 College Physics I	4 hours
PHYS 1402 College Physics II	4 hours
PHYS 1403 Stars and Galaxies	4 hours
PHYS 1404 Solar System	4 hours
PHYS 1405 Elementary Physics I	4 hours
PHYS 1407 Elementary Physics II	4 hours
PHYS 2425 University Physics I	4 hours
PHYS 2426 University Physics II	4 hours

# Speech

COMM 1307 Introduction to Mass Communication	3 hours
SPCH 1311 Introduction to Speech Communication	3 hours
SPCH 1315 Public Speaking	3 hours
SPCH 1318 Interpersonal Communication	3 hours
SPCH 1321 Business & Professional Communication	3 hours

# **Course Descriptions**

## POFT 1393 Special Topics: Introduction to Keyboarding

Address topics recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Develops skill in keyboarding techniques with emphasis on alphabet, number, and symbol keys by touch and the development of acceptable speed and accuracy. Skills can be applied to computers and other equipment with keyboards. Emphasizes proper keyboarding technique. Semester Hours 3 (3 lec)

## POFT 2303 Speed and Accuracy Building

Review, correct, and improve keyboarding techniques for the purpose of increasing speed and improving accuracy. This course is designed to be repeated multiple times to improve student proficiency. Prerequisite: POFT 1393. Semester Hours 3 (3 lec)

## **POFT 1309 Administrative Office Procedures I**

Studies current office procedures, duties, and responsibilities applicable to an office environment including telephone skills, time management, travel and meeting arrangements, mail processing, human relations and interview skills are covered. Offered only in fall semester. Semester Hours 3 (3 lec)

## **ACNT 1303 Introduction to Accounting I**

Analyzes, classifies, and records business transactions in a manual and computerized environment. Emphasis is on understanding the complete accounting cycle and preparing financial statements, bank reconciliations, and payroll. May not be counted toward the associate degree if taken after successful completion of ACCT 2401. Semester Hours 3 (3 lec/lab)

#### **POFT 1301 Business English**

Introduces the practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business. Students will apply the basic rules of grammar, spelling, capitalization, number usage, and punctuation; utilize terminology applicable to technical and business writing; develop proofreading and editing skills; and teaches how to write effective sentences and paragraphs for business applications. Prerequisite: Must have passed the TSI Assessment or have credit for ENGL 0301. Semester Hours 3 (3 lec)

## POFT 1321 Business Math

Instructs the fundamentals of business mathematics including analytical and problem-solving skills for critical thinking in business applications. Applies problem solving skills utilizing electronic calculators. Enables the student to use mathematical approaches in computing percents and their applications in business discounts, interest, taxes, payroll, markups, consumer and business credit investments, and other business applications. Semester Hours 3 (3 lec)

#### PHIL 2306 Introduction to Ethics

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value. Semester Hours 3 (3 lec)

#### **POFT 2312 Business Correspondence & Communication**

Presents the development of writing skills and presentation skills to produce effective business documents. Offered only in spring semester. Prerequisite: POFT 1301 with a grade of C or better. Semester Hours 3 (3 lec)

## **ITSW 1301 Introduction to Word Processing**

Presents an overview of the production of documents, tables, and graphics. Students will identify word processing terminology and concepts, create technical documents, format and edit documents, use simple tools and utilities, and print documents. Presents pagination, merging and storage of documents. Prerequisite: POFT 1393 with a grade of C or better or a keyboarding skill of 30 words a minute using touch method. Semester Hours 3 (2 lec/2 lab)

## **GOVT 2305 Federal Government**

Origin and development of the U.S. Constitution; structure and powers of the national government including the legislative, executive, and judicial branches; federalism; political participation; the national election process; public policy; civil liberties; and civil rights. NOTE: Must have passed the reading portion of the TSI Assessment or have credit for INRW 0402. Semester Hours 3 (3 lec)

#### **GOVT 2306 Texas Government**

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. NOTE: Must have passed the reading portion of the TSI Assessement or have credit for INRW 0402. Semester Hours 3 (3 lec)

#### **ECON 1301 Introduction To Economics**

A survey of microeconomic and macroeconomic principles for non-business majors. Microeconomic topics will include supply and demand, consumer behavior, price and output decisions by firms under various market structures, factor markets, market failures, international trade, and exchange rates. Macroeconomic topics will include national income, unemployment, inflation, business cycles, aggregate supply and demand, monetary and fiscal policy, and economic growth. Semester Hours 3 (3 lec)

## **POFT 2301 Intermediate Keyboarding**

Presents a continuation of keyboarding skills emphasizing acceptable speed and accuracy levels and formatting documents. Emphasis on proofreading, editing, following instructions, and keying documents from various copy. Formatting basic documents, such as letters, reports, tables and business forms. End-of-Course Competency Standard: Keyboard 50 words a minute with 5 or fewer errors. Prerequisites: POFT 1393 and ITSW 1301 with a grade of C or better and keyboarding skill of 30 words a minute using touch method. Semester Hours 3 (2 lec/3 lab)

## **POFI 2340 Advanced Word Processing**

Presents advanced techniques in merging, macros, graphics, and desktop publishing. Includes extensive formatting for technical documents. Emphasis is on business applications. Students will design and create macros, use advanced formatting features, import data, and use graphic and special functions to enhance documents. Emphasizes advanced printing techniques. Offered only in fall semester. Prerequisite: ITSW 1301 with a grade of C or better or consent of the program director. Semester Hours 3 (2 lec/2 lab)

## POFT 2386 Internship-Administrative Assistant/Sec

Establishes a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. This may be a paid or unpaid experience. Course covers interpersonal and job-related skills. Prerequisites: POFT 1309,ITSW 1301, POFI 2340 and POFT 2301 with a minimum grade of C. An approved work station and consent of program director. Semester Hours 3 (1 lec/15 lab)

## SOCI 1301 Introduction to Sociology

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. Semester Hours 3 (3 lec)

### **PSYC 2301 General Psychology**

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes. NOTE: Must have passed the reading portion of the TSI Assessment or have credit for INRW 0402. Semester Hours 3 (3 lec)

## **ARTC 1313 Digital Publishing I**

Introduces the fundamentals of using digital layout as a primary publishing tool and the basic concepts and terminology associated with typography and page layout. Students learn to apply fundamentals of page layout, define typographic terminology and specifications, import text and graphics into page layout programs, and the course discusses file formats and file management. Offered only in spring semester. Prerequisite: ITSW 1301 with a grade of C or better. Semester Hours 3 (2 lec/2 lab)

## **BMGT 1325 Office Management**

Presents systems, procedures, and practices related to organizing and planning office work, controlling employees' performance, and exercising leadership skills. Offered only in spring semester. Prerequisite: POFT 1301, POFT 1309, ITSW 1301, or POFT 2301 with a grade of C or better. Semester Hours 3 (3 lec)

#### **ITSC 1309 Integrated Software Applications I**

Introduces business productivity software suites using word processing, spreadsheets, databases, and/or presentation software. Semester Hours 3 (2 lec/2 lab)

## POFT 2333 Advanced Keyboarding

Continues keyboarding skills in advanced document formatting, emphasizing speed, accuracy, and decision-making. Studies advanced concepts in a variety of office-simulated correspondence activities with emphasis on organization, prioritizing, decision-making, composition, placement, accuracy, and speed development. Students will apply mailability standards; produce alphabetic, alphanumeric, and numeric material; enhance proofreading and editing skills; and implement decision-making skills. Utilizes word processing software to create mailable copy. End-of-Course Competency Standard: Keyboard 60 WPM with 5 or fewer errors. Prerequisites: ITSW 1301, POFT 1309 or POFT 2301 with a grade of C or better and keyboard 50 words a minute using touch method. Semester Hours 3 (2 lec/3 lab)

#### POFT 2387 Internship-Administrative Assistant/Sec

Establishes a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. This may be a paid or unpaid experience. Course covers ergonomics and interpersonal and job-related skills. Prerequisites: POFT 1309, ITSW 1301, POFI 2340 and POFT 2301 with a minimum grade of C. An approved workstation and consent of program director. Semester Hours 3 (1 lec/15 lab)

## MATH 1314 College Algebra

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Problem solving with algebraic applications relevant to today's world is emphasized. Graphing calculator required. Recommended Prerequisite: TSI complete. Prerequisite: MATH 0311 or consent of division chair. Semester Hours 3 (3 lec)

## MATH 1316 Plane Trigonometry

In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. Graphing calculator required. Prerequisite: MATH 1314 or high school precalculus, or consent of division chair. Semester Hours 3 (3 lec)

## MATH 1324 Mathematics for Business & Social Sciences

The application of common algebraic functions, including polynomial, exponential, logarithmic and rational, to problems in business, economics and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices, linear programming; and probability, including expected value. Demonstrates the application of mathematical concepts to the solution of various business, economics, management, and other real-world problems. (The content level of MATH 1324 is expected to be at or above the level of MATH 1314 College Algebra). Prerequisite: MATH 0311 or consent of division chair. Semester Hours 3 (3 lec)

#### MATH 1325 Calculus for Business & Social Sciences

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics and social sciences. This course is not a substitute for MATH 2413, Calculus I. Presents the study of limits and their applications in differential and integral calculus, emphasizing both conceptual and applied mathematics. Topics may include optimization of functions, curve sketching, exponential and logarithmic functions, definite and indefinite integrals, differential equations, partial derivatives, and Lagrange multipliers. (The content level of MATH 1325 is expected to be below the content level of MATH 2413 Calculus I). Prerequisite: MATH 1324 or equivalent or consent of division chair. Semester Hours 3 (3 lec)

#### MATH 1332 Contemporary Mathematics (Quantitative Reasoning)

Intended for Non STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered. Graphing calculator required. Prerequisite: TSI math complete or MATH 0308 or consent of division chair. Semester Hours 3 (3 lec)

## MATH 1342 Elementary Statistical Methods

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. Provides a study of statistical description of frequency distributions; sampling; elementary principles of probability distributions, both binomial and normal; estimation of parameters; tests of hypotheses; linear regression and correlation; independence of variables by Chi Square analysis; and an introduction to a statistics software package. Graphing calculator required. Prerequisite: TSI math complete or MATH 0308 or completion of college-level math course or consent of division chair. Semester Hours 3 (3 lec)

## MATH 2412 Pre-Calculus Mathematics

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Prerequisite: MATH 1314 or passing grade on non-credit equivalency exam for MATH 1314 or credit in high school precalculus or consent of division chair. Semester Hours 4 (4 lec)

### MATH 2413 Calculus I

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas. Graphing calculator required. Prerequisite: MATH 2412 Pre-Calculus Mathematics or both MATH 1314 AND MATH 1316 or consent of division chair. Semester Hours 4 (4 lec)

## PHIL 2303 Introduction to Formal Logic

The purpose of the course is to introduce the student to symbolic logic, including syllogisms, propositional and predicate logic, and logical proofs in a system of rules. Semester Hours 3 (3 lec)

## BIOL 1406 Biology for Science Majors I

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. Semester Hours 4 (3 lec/3 lab)

## **BIOL 1407 Biology for Science Majors II**

The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Prerequisite: BIOL 1406. Semester Hours 4 (3 lec/3 lab)

## **BIOL 1408 Biology for Non-Science Majors I**

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Semester Hours 4 (3 lec/3 lab)

## **BIOL 1411 General Botany**

Fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. Includes the role of plants in the environment, evolution, and phylogeny of major plant groups, algae, and fungi. This course is intended for science majors. Semester Hours 4 (3 lec/3 lab)

## **BIOL 1413 General Zoology**

Fundamental biological concepts relevant to animals, including systematics, evolution, structure and function, cellular and molecular metabolism, reproduction, development, diversity, phylogeny, and ecology. This course is intended for science majors. Semester Hours 4 (3 lec/3 lab)

## **BIOL 2401 Anatomy & Physiology I**

Anatomy and Physiology I is the first part of a two-course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, and nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. Semester Hours 4 (3 lec/3 lab)

## **BIOL 2402 Anatomy & Physiology II**

Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. Prerequisite: BIOL 2401 with a grade of C or better. Semester Hours 4(3 lec/3 lab)

#### BIOL 2404 Anatomy & Physiology (specialized)

Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized. This course is designed to introduce the integrative processes within cells, tissues, organs and body systems associated with human anatomy and physiology. Lecture in combination with laboratory exercises will be utilized to provide a basis for anatomical and physiological processes. This knowledge base will provide a background for selected programs in health careers. Semester Hours 4 (3 lec/3 lab)

## **BIOL 2420 Microbiology for Non-Science Majors**

This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics, and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health. Prerequisite: BIOL 1406, 1408, 1409, 2401 or 2404 with a grade of C or better. Semester Hours 4 (3 lec/3 lab)

## **CHEM 1405 Introductory Chemistry I**

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for allied health students and for students who are not science majors. Introduces basic laws, theories, concepts, use of the metric system, atomic structure and matter, nuclear chemistry, periodic table, chemical bonding, solution chemistry, behavior of gases, and environmental chemistry. Semester Hours 4 (3 lec/3 lab)

## **CHEM 1407 Introductory Chemistry II**

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for allied health students and for students who are not science majors. Intoduces organic chemistry, biochemistry, an overview of metabolism and some special topics. Prerequisite: High school chemistry or CHEM 1405. Semester Hours 4 (3 lec/3 lab)

## **CHEM 1411 General Chemistry I**

Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Includes basic laboratory experiments supporting theoretical principles presented in CHEM 1411, as well as an introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports. Prerequisite: MATH 1314 or equivalent. High school chemistry is strongly recommended. Semester Hours 4 (3 lec/3 lab)

## **CHEM 1412 General Chemistry II**

Chemical equilibrium, phase diagrams and spectrometry, acid-base concepts, thermodynamics, kinetics, electrochemistry, nuclear chemistry, an introduction to organic chemistry and descriptive inorganic chemistry. Includes basic laboratory experiments supporting theoretical principles presented in CHEM 1412, as well as an introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports. Prerequisite: CHEM 1411 with a grade of C or better. Semester Hours 4 (3 lec/4 lab)

## ENVR 1101 Environmental Science I (lab)

This laboratory-based course accompanies ENVR 1301 Environmental Science (lecture). Activities will cover methods used to collect and analyze environmental data. Prerequisite: Credit for or concurrent enrollment in ENVR 1301. Semester Hour 1 (3 lab)

## ENVR 1301 Environmental Science I (lecture)

A survey of the forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources. Semester Hours 3 (3 lec)

## ENVR 1102 Environmental Science II (lab)

General interest course requiring a minimum of previous science background and relating scientific knowledge to problems involving energy and the environment. Lab exercises relate scientific knowledge to problems involving energy and the environment. Includes research projects related to the historical development of current environmental practices and concerns. May include other research projects dealing with current or potential environmental concerns. Prerequisite: Credit for or concurrent enrollment in ENVR 1302. Semester Hour 1 (3 lab)

## **ENVR 1302 Environmental Science II - Lecture**

General interest course requiring a minimum of previous science background and relating scientific knowledge to problems involving energy and the environment. Semester Hours 3 (3 lec)

## ENVR 1401 Environmental Science I (lecture + lab)

A survey of the forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources. The laboratory activities will cover methods used to collect and analyze environmental data. Semester Hours 4 (3 lec/3 lab)

## **ENVR 1402 Environmental Science II**

General interest course requiring a minimum of previous science background and relating scientific knowledge to problems involving energy and the environment. Lab exercises relate scientific knowledge to problems involving energy and the environment. Includes research projects related to the historical development of current environmental practices and concerns. May include other research projects dealing with current or potential environmental concerns. Semester Hours 4 (3 lec/3 lab)

## GEOL 1101 Earth Sciences I for Non-Science Majors (lab)

This laboratory-based course accompanies GEOL 1301 Earth Sciences I. Activities will cover methods used to collect and analyze data in geology, meteorology, oceanography and astronomy. Prerequisite: GEOL 1301. Semester Hours 1 (3 lab)

## **GEOL 1301 Earth Sciences I for Non-Science Majors (lecture)**

Survey of geology, meteorology, oceanography and astronomy. Semester Hours 3 (3 lec)

## GEOL 1401 Earth Sciences I for Non-Sciences Majors (lecture + lab)

Survey of geology, meteorology, oceanography, and astronomy. The lab activities will cover methods used to collect and analyze data in geology, meteorology, oceanography and astronomy. Semester Hours 4 (3 lec/3 lab)

## GEOL 1403 Physical Geology (lecture + lab)

Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Laboratory activities will cover methods used to collect and analyze earth science data. Semester Hours 4 (3 lec/3 lab)

## GEOL 1404 Historical Geology (lecture + lab)

A comprehensive survey of the history of life and major events in the physical development of Earth as interpreted from rocks and fossils. Laboratory activities will introduce methods used by scientists to interpret the history of life and major events in the physical development of earth from rocks and fossils. Prerequisite: GEOL 1303 or 1403. Semester Hours 4 (3 lec/3 lab)

## PHYS 1401 College Physics I

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; with emphasis on problem solving. Prerequisite: MATH 1316, 2412 or 2413 with a grade of C or better. Semester Hours 4 (3 lec/3 lab)

#### PHYS 1402 College Physics II

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. Prerequisite: PHYS 1401. Semester Hours 4 (3 lec/3 lab)

## **PHYS 1403 Stars and Galaxies**

Study of stars, galaxies, and the universe outside our solar system. Semester Hours 4 (3 lec/3 lab)

## PHYS 1404 Solar System

Study of the sun and its solar system, including its origin. Semester Hours 4 (3 lec/3 lab)

## **PHYS 1405 Elementary Physics I**

Conceptual level survey of topics in physics intended for liberal arts and other non-science majors. Semester Hours 4 (3 lec/3 lab)

## **PHYS 1407 Elementary Physics II**

Conceptual level survey of topics in physics intended for liberal arts and other non-science majors. Semester Hours 4 (3 lec/3 lab)

## **PHYS 2425 University Physics I**

Fundamental principles of physics using calculus for science, computer science, and engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems and thermodynamics; and emphasis on problem solving. Prerequisite: MATH 2413 with a grade of C or better. Semester Hours 4 (3 lec/3 lab)

#### PHYS 2426 University Physics II

Principles of physics using calculus for science, computer science, and engineering majors, involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics. Prerequisites: PHYS 2425 and MATH 2414 with a grade of C or better. Semester Hours 4 (3 lec/3 lab)

#### COMM 1307 Introduction to Mass Communication

Survey of basic content and structural elements of mass media and their functions and influences on society. Semester Hours 3 (3 lec)

#### SPCH 1311 Introduction to Speech Communication

Introduces basic human communication principles and theories embedded in a variety of contexts, including interpersonal, small group, and public speaking. Semester Hours 3 (3 lec)

### SPCH 1315 Public Speaking

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. Semester Hours 3 (3 lec)

## SPCH 1318 Interpersonal Communication

Application of communication theory to interpersonal relationship development, maintenance, and termination in relationship contexts, including friendships, romantic partners, families, and relationships with co-workers and supervisors. Semester Hours 3 (3 lec)

## SPCH 1321 Business & Professional Communication

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams, and technologically mediated formats. Semester Hours 3 (3 lec)