

Course Descriptions

Course Description Key

Example: IDT 1214 TECHNICAL PHYSICS 3-2-4

IDT - Indicates the academic department that offers the course. For example, this particular course is being offered by UACCB's Industrial Technology Department.

1214 - This is the course number. The first number indicates the level for the course. Level 1 courses are recommended freshman- or entry-level courses. Level 2 courses are typically sophomore- or advanced-level courses. The College uses the second and third numbers for record-keeping purposes. The last number in the sequence states the number of credit hours awarded for the course, with the exception of some Allied Health courses, where the last two numbers indicate credit hours awarded.

Title - The title of the course will be printed at the top.

3-2-4 - These numbers represent the actual time spent in this course. The first number indicates how many hours per week the class meets for lectures. The second number designates how many hours per week the class meets for labs. The third and last number indicates how many credits are awarded for this course. (Course title headings will be followed by a brief course description.)

Prerequisites – A listing of courses a student must take before enrolling in this course. The prerequisite course must be completed with a "C" or better.

Corequisites – A listing of courses a student must take prior to or at the same time as this course.

ACCOUNTING

ACC 1013 PRINCIPLES OF ACCOUNTING I **3-0-3**
 Explores accounting principles and problems, primarily as they apply to the sole-proprietorship form of business. The course places special emphasis on the accounting cycle and its implementation.

ACC 1023 PRINCIPLES OF ACCOUNTING II **3-0-3**
 A continuation of Accounting I. Students study partnerships, corporations, and the analysis of financial statements. **Prerequisite:** ACC 1013 (Principles of Accounting I).

ACC 1033 COMPUTERIZED ACCOUNTING **3-0-3**
 This course involves the comprehensive use of a computerized accounting system. The course study includes accounting for service and merchandising businesses, payroll and company setup using Quickbooks. Spring only. **Prerequisite:** ACC 1013 (Principles of Accounting I).

ACC 2013 INTERMEDIATE ACCOUNTING **3-0-3**
 A sophisticated exploration of the fundamental processes of accounting theory. Spring only. **Prerequisite:** ACC 1023 (Principles of Accounting II).

ACC 2023 PAYROLL ACCOUNTING **3-0-3**
 Introduces students to the major tasks of payroll accounting. Examines employment practices; federal, state, and local governmental laws and regulations; internal controls; and various payroll accounting forms and records. Spring only. **Prerequisite:** ACC 1013 (Principles of Accounting I).

ACC 2033 FEDERAL INCOME TAX **3-0-3**
 Provides instruction in the basic income tax structure from the standpoint of the individual. Fall only. **Prerequisite:** ACC 1013 (Principles of Accounting I).

ACC 2043 COST ACCOUNTING **3-0-3**
 Explores principles and methods of accounting for materials, direct labor, and the distribution of overhead expenses, cost records, operating reports, and budgetary control. Fall only. **Prerequisite:** ACC 1023 (Principles of Accounting II).

AGRONOMY

AGRN 1203 INTRODUCTION TO PLANT SCIENCE **3-0-3**
 Introduces the basics of agricultural crop plant structure, growth, and production.

ANIMAL SCIENCE

ANSC 1003 INTRO TO ANIMAL & POULTRY SCIENCE **3-0-3**
 Emphasizes the importance of animal and poultry production in American agriculture. Topics include principles of production and management of livestock, poultry, and their products.

ANSC 2143 FEEDS AND FEEDING **3-0-3**
 Presents principles of animal nutrition, composition, and digestibility of feeds, balanced rations, feeding of farm animals. **Prerequisite:** ANSC 1003 (Introduction to Animal and Poultry Science).

BASIC SKILLS

PRE 0203 PREALGEBRA **3-0-3**

Provides instruction in basic mathematics, including topics such as fractions, decimals, proportions, percentages, metric measurements, word problems, and/or algebra. Enrollment is based on placement test scores. (Credit not applicable toward a degree or certificate.)

PRE 0303 READING IMPROVEMENT **3-0-3**

Designed for all students who seek to improve their reading skills. Enrollment is based on placement test scores. (Credit not applicable toward a degree or certificate.)

PRE 0503 BASIC WRITING **3-0-3**

The focus is intensive work on the basic strategy, organization, diction and grammar of the collegiate essay. Must be taken before ENG 1103 English Composition I when test scores require. (Credit not applicable toward a degree or certification.)

BIOLOGICAL SCIENCES

BIOL 1001 BIOLOGICAL SCIENCE LAB **0-2-1**

Students will apply laboratory techniques in experimentation and observation to illustrate biological concepts. **Corequisite:** BIOL 1003 (Biological Science)

BIOL 1003 BIOLOGICAL SCIENCE **3-0-3**

Cellular and molecular biology are the main areas of focus. Basic concepts of ecology will also be covered. **Corequisite:** BIOL 1001 (Biological Science Lab)

BIOL 1011 ESSENTIALS OF ANATOMY/PHYSIOLOGY LAB **0-2-1**

A laboratory experience emphasizing the anatomy of human organ systems and measurements of human physiology. *The course does not meet requirements for AS degree science majors.* **Corequisite:** BIOL 1013 (Essentials of Anatomy and Physiology). **Prerequisite:** A grade of C or better in PRE 0303 (Reading Improvement); or enhanced ACT reading sub score of 19; or ASSET score of 43 or above in reading.

BIOL 1013 ESSENTIALS OF ANATOMY AND PHYSIOLOGY **3-0-3**

Focuses on concepts of basic chemistry and human biology, including basic cellular biology and the structure and function of human organ systems. The course is designed for majors in EMT-P, Medical Office Management, Practical Nursing, and Surgical Technology, and as an AA degree general education or liberal arts focus elective. *It does not meet requirements for AS degree science majors.* **Corequisite:** Students in the pre-PN program and general education must take BIOL 1011 (Essentials of Anatomy and Physiology Laboratory). **Prerequisite:** OFA (Medical Terminology) and a grade of C or better in PRE 0303 (Reading Improvement); or enhanced ACT reading sub score of 19; or ASSET score of 43 or above in reading.

BIOL 1021 PRINCIPLES OF ZOOLOGY LABORATORY **0-2-1**

Laboratory exercises illustrating animal structure, physiology, genetics, and ecology. **Corequisite:** BIOL 1023 (Principles of Zoology).

- BIOL 1023 PRINCIPLES OF ZOOLOGY** 3-0-3
Principles governing all animals' forms and functions. This course will cover extensively the phylogenetic survey of the Kingdom Protista and Kingdom Animalia. **Corequisite:** BIOL 1021 (Principles of Zoology Laboratory). **Prerequisite:** BIOL 1003/1001 (Biological Science and Lab).
- BIOL 2001 ANATOMY & PHYSIOLOGY I LAB** 0-2-1
Emphasizes cell structure; histology of human tissues; anatomy of the integument, human skeleton, muscles, and nervous system. **Corequisite:** BIOL 2003 (Anatomy and Physiology I). **Prerequisite:** A grade of C or better in PRE 0303 (Reading Improvement); or enhanced ACT reading sub score of 19; or ASSET score of 43 or above in reading. *
- BIOL 2003 ANATOMY & PHYSIOLOGY I** 3-0-3
The first course of a two-semester sequence. Topics include anatomical terminology, basic biochemistry, cellular biology, histology, the structure and function of the integumentary, skeletal, muscular, and nervous systems. **Corequisite:** BIOL 2001 (Anatomy & Physiology Lab). **Prerequisite:** A grade of C or better in PRE 0303 (Reading Improvement); or enhanced ACT reading sub score of 19; or ASSET score of 43 or above in reading. *
- BIOL 2011 ANATOMY & PHYSIOLOGY II LAB** 0-2-1
Emphasizes reflexes and sensation, special senses, hematology, anatomy of the heart, circulatory system, respiratory, digestive, urinary, and reproductive systems, ECGs, and urinalysis. **Prerequisite:** BIOL 2003/2001 (Anatomy and Physiology I) or permission of instructor. **Corequisite:** BIOL 2013 (Anatomy & Physiology II). **Prerequisite:** A grade of C or better in PRE 0303 (Reading Improvement); or enhanced ACT reading sub score of 19; or ASSET score of 43 or above in reading. *
- BIOL 2013 ANATOMY & PHYSIOLOGY II** 3-0-3
The second course of a two-semester sequence. Covers the structure and functions of the following systems: special senses, endocrine, circulatory, lymphatic, immune, respiratory, digestive, urinary, and reproductive. Nutrition and metabolism are also covered. **Prerequisite:** BIOL 2003/2001 (Anatomy and Physiology I) with C or better or permission of instructor. A grade of C or better in PRE 0303 (Reading Improvement); or enhanced ACT reading sub score of 19; or ASSET score of 43 or above in reading.
- BIOL 2103 PATHOPHYSIOLOGY FOR HEALTH CARE PROFESSIONALS** 3-0-3
Study of the pathology and general health management of diseases and injuries across the life span. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injury. **Prerequisites:** BIOL 2003 and 2001 (Anatomy and Physiology I and Lab) and BIOL 2013 and 2011 (Anatomy and Physiology II and Lab) with a C or better or BIOL 1013 and 1011 (Essentials of Anatomy and Physiology and Lab) with a C or better.
- BIOL 2201 MICROBIOLOGY LABORATORY** 0-3-1
Provides experience with microbiological laboratory techniques. Emphasis placed on culturing and identifying medically important bacteria and human parasites. **Corequisite:** BIOL 2203 (Microbiology).*

BIOL 2203 MICROBIOLOGY **3-0-3**

Emphasizes the biology of medically important microorganisms. Topics include the history of microbiology, cellular and molecular biology of prokaryotes, epidemiology and pathogenicity, as well as surveys of bacterial, fungal and viral groups. **Prerequisite:** Any college biology course with C or better. **Corequisite:** BIOL 2201 (Microbiology Laboratory). *

BIOL 2301 FIELD TECHNIQUES IN SCIENCE **0-2-1**

Field Techniques in Science is a course that is designed to introduce the student to standard techniques that are employed in various avenues of scientific investigation. This course will be the practical application of the ideas in the scientific curriculum (i.e., Biological Sciences, Zoology, Chemistry, and Statistics). Specifically, the students will learn standard methods for monitoring the environment (e.g., water chemistry and bio-monitoring), as well as techniques that are of interest to the students and/or instructor.

*To take a science course without the corequisite, you must have the written approval of the instructor.

BUSINESS

BUS 1013 INTRODUCTION TO BUSINESS **3-0-3**

A survey of the field of business administration with emphasis in the functional areas of marketing, production, business organizations and ownership, financial management, communication, taxation, and regulation.

BUS 1023 BUSINESS COMMUNICATIONS **3-0-3**

Provides a comprehensive study of correspondence used in the modern business. Emphasis is placed on writing effective business correspondence documents and reports. **Prerequisite:** ENG 1103 (English Composition I).

BUS 2013 PRINCIPLES OF MANAGEMENT **3-0-3**

Students study and develop techniques and skills in the principal areas of management; planning and decision-making; organizing and human resources; leadership, including motivation and communications; and control.

BUS 2033 LEGAL ENVIRONMENT OF BUSINESS **3-0-3**

Provides an introduction to the fundamental elements of the legal system including the use of the legal system in the remedy of business disputes, the development and operation of the court system, and the regulation of American business and industry.

BUS 2043 HUMAN RESOURCE MANAGEMENT **3-0-3**

This course is an introduction in the study of human resource management. Topic areas such as development of effective HRM programs, enhancing employee relations and productivity, compensation, benefits and labor relations are discussed.

BUS 2053 STATISTICS **3-0-3**

Descriptive and inferential statistical techniques and methods in business are taught. Topics include qualitative data analysis, frequency distributions, numerical methods, data dispersions, variance analysis, estimation theory, sampling distributions, discrete and continuous probability distributions,

hypothesis testing and confidence interval estimation. **Prerequisites:** MTH 1023 (College Algebra) or equivalent. (Cross listed as MTH 2053.)

BUS 2063 QUANTITATIVE STATISTICS 3-0-3

An introduction to Quantitative methods frequently used in business. Topics include regression analysis, decision analysis and expected values, Chi Square, sampling techniques, forecasting, linear programming, simulation, transportation problems and queuing analysis.

BUS 2113 BUSINESS ETHICS 3-0-3

The focus of this course is primarily on the ethical issues that business decision makers face in developing policies about employees, customers, and the general public.

BUS 2203 SUPERVISION FOR INDUSTRY 3-0-3

This course pays particular attention to the unique issues, ideas, and trends which affect the supervisor in an industrial setting. Discussion topics include technology and the supervisor; ethics and the supervisor; planning, scheduling, organizing, and controlling; productivity, problem solving, and legal issues. (Cross-listed with ITM 2203.)

BUS 2253 PRINCIPLES OF FINANCE 3-0-3

Provides an introduction to financial management techniques including the framework with which to analyze and make decisions regarding financial resources. Fall only. Prerequisite: ACC 1013 (Principles of Accounting I).

BUS 2503 PERSONAL FINANCE 3-0-3

This is a survey of personal finance and investment, focusing on topics which touch on the lives of everyone. Topics to be covered include: personal/family budgeting, banking services, income taxes, credit and credit cards, automobiles and other major purchases, insurance products (health, life, property, liability), investments and retirement planning, real estate, and estate planning.

BUS 2513 PRINCIPLES OF MARKETING 3-0-3

Provides a study of the business activities performed to direct the flow of goods and services from the producer to the consumer. Major topics include consumer behavior, market research, products, pricing, promotion, and distribution.

BUS 2533 INTERNSHIP – SUMMER 3-0-3

A cooperative program between the student, the College, and business and industry to begin to develop the necessary skills needed to be successful in the job environment. Students spend two hours in class for a brief indoctrination and 120 hours on-the-job training during the summer.

BUS 2653 INTERNSHIP 3-0-3

A cooperative program between the student, the College, and business and industry to begin to develop the necessary skills needed to be successful in the job environment. Students spend 4 weeks in class and 80 hours on-the-job training during the semester. Students work with the instructor to develop meaningful learning objectives based on the job assignments.

BUS 2753 SMALL BUSINESS MANAGEMENT 3-0-3

Capstone course designed for students to apply what they have learned in other courses about the issues involved in organizing and operating a small business. Topics include personal qualifications, small business techniques, capital requirements, and forms of organizations, location, and sources of assistance. Spring only. Prerequisite: ACC 1013 (principles of Accounting I).

BUS 2893 CULTURAL DIMENSIONS OF INTERNATIONAL BUSINESS 3-0-3

This course will introduce students to the impact that culture has on business. Most business courses focus exclusively with how the American system of business works, but having an understanding of how business is carried out across the globe will be a great asset to students in the years to come. Given the increase in business across international borders, students need to be aware of the differences in cultures and be aware of how to handle them.

CHEMISTRY**CHEM 1001 FUNDAMENTALS OF CHEMISTRY LAB 0-3-1**

Laboratory exercises to strengthen understanding in lecture. Topics include chemical measurements, separation of mixtures, identification of unknown liquids and solids, calculations of empirical formulas, calorimetry, Lewis dot modeling, specific heat, titration of acids and bases and pH. **Corequisite:** CHEM 1003 (Fundamentals of Chemistry).

CHEM 1003 FUNDAMENTALS OF CHEMISTRY 3-0-3

Fundamentals of chemical terms and the mathematical concepts needed to succeed in chemistry. Drills on problem solving skills. Recommended for students with no chemistry background. **Prerequisite:** A grade of C or better in MTH 0003 (Introduction to Algebra); or enhanced ACT math subscore of 17 or 18; or ASSET score of 37 or above in Intermediate Algebra. **Corequisite:** CHEM 1001 (Fundamentals of Chemistry Laboratory) and MTH 0013 (Intermediate Algebra) or MTH 1023 (College Algebra).

CHEM 1101 COLLEGE CHEMISTRY I LABORATORY 0-3-1

A laboratory experience to support CHEM 1103. **Corequisite:** CHEM 1103 (College Chemistry I). Fall only. *

CHEM 1103 COLLEGE CHEMISTRY I 3-0-3

The first course of a two-semester sequence. Concepts covered include fundamentals of chemistry, stoichiometry, atomic structure, chemical periodicity, bonding and orbital theory, chemical reactions, gases and nuclear chemistry. **Prerequisites:** A grade of C or better in MTH 1103 (Intermediate Algebra); or enhanced ACT math sub score of 19; or ASSET score of 43 or above in Intermediate Algebra; and high school chemistry or CHEM 1003 / 1001 (Fundamentals of Chemistry / Laboratory). **Corequisite:** CHEM 1101 (College Chemistry I Laboratory). Fall only.

CHEM 1121 COLLEGE CHEMISTRY II LABORATORY 0-3-1

A laboratory experience to support CHEM 1123. **Corequisite:** CHEM 1123 (College Chemistry II). Spring only.

CHEM 1123 COLLEGE CHEMISTRY II **3-0-3**

The second course of a two-semester sequence. Concepts covered include liquids, solutions, solids, acids, bases, salts, redox reactions, thermodynamics, kinetics, and equilibrium reactions. **Prerequisites:** MTH 1023 (College Algebra) and CHEM 1101 / 1103 (College Chemistry I and Lab). **Corequisite:** CHEM 1121 (College Chemistry II Laboratory). Spring only. *

CHEM 2111 ORGANIC AND BIOCHEMISTRY LAB **0-3-1**

This course is for students in allied health and agriculture programs. The lab meets three hours per week. The course will explore practical applications of compounds studied in the lecture section. **Prerequisite:** CHEM 1101 (College Chemistry I Laboratory) and CHEM 1103 (College Chemistry I). **Corequisite:** CHEM 2113 (Organic and Biochemistry). Spring only.

CHEM 2113 ORGANIC AND BIOCHEMISTRY **3-0-3**

This course is for students in allied health and agriculture programs. The lecture class meets for three hours each week, and the lab meets for three hours per week. Course will include an overview of types of organic compounds and biochemical processes. **Prerequisite:** CHEM 1101 (College Chemistry I Laboratory) and CHEM 1103 (College Chemistry I). **Corequisite:** CHEM 2111 (Organic and Biochemistry Lab). Spring only.

*To take a science course without the corequisite or prerequisite, you must have the written approval of the instructor.

COMPUTER INFORMATION SYSTEMS

CIS 1003 INTRODUCTION TO COMPUTERS **3-0-3**

Provides a fundamental orientation regarding what computers are and what they can do. Topics include computer hardware, data input and output, data representation, auxiliary storage, data files, operating systems, and application of software. Students receive some hands-on experience in the computer lab with various microcomputer software.

CIS 1033 PC HARDWARE REPAIR I **3-0-3**

Provides instruction on PC hardware components including the system board, hard drives, floppy drives and memory chips. How software and hardware work together is discussed. A brief introduction to basic electricity and power supplies is provided. Students receive some hands-on experience in lab.

CIS 1053 COMPUTER SOFTWARE APPLICATIONS **3-0-3**
(Word Processing, Electronic Spreadsheet, Database, PowerPoint)

Provides instruction in the use of word processing, electronic spreadsheet, database and presentation software for microcomputers. Students will become more familiar with microcomputer operations, operating systems and ways of solving everyday problems with word processing, electronic spreadsheet, database and presentation software programs.

CIS 1103 COMPUTER GRAPHICS **3-0-3**

Provides instruction in the use of graphics application software for computers. Includes designing, creating, editing, and enhancing graphics using application software. Spring only.

CIS 2013 APPLIED ELECTRONIC SPREADSHEETS 3-0-3

Provides an advanced understanding of the popular business spreadsheet software program for Windows. Course content includes creating, modifying, and printing spreadsheets, using spreadsheets to solve problems, graphing, and database operations. **Prerequisite:** CIS 1053 (Computer Software Applications).

CIS 2034 PC HARDWARE REPAIR II 3-2-4

This course is a follow-up to PC Hardware Repair I. Windows operating systems, modems and PCs on a network and on the Internet are all discussed. Notebook computers, printers and SCSI devices are covered. Troubleshooting and maintenance fundamentals are introduced. This is a preparatory course for the A+ Certification. Students receive hands-on experience in lab. Spring only. **Prerequisites:** CIS 1033 (PC Hardware Repair I).

CIS 2044 PC TROUBLESHOOTING 4-0-4

This course is a follow-up course to PC Hardware II. Troubleshooting is a process that helps a user to find problems on a PC. An orderly process to troubleshooting should be used, based on the PC standards. Documentation is a very important part of the troubleshooting process. Students will develop the skill to document any PC problem. This course gives the student the fundamental knowledge needed to document and troubleshoot a PC. **Prerequisite:** CIS 1033 (PC Hardware Repair I) and CIS 2034 (PC Hardware Repair II).

CIS 2053 VISUAL BASIC.NET 2005 PROGRAMMING 3-0-3

Provides instruction in writing programs and producing reports using Visual Basic.net 2005 programming language. Students learn about the development concepts, program cycles, specifications, and how-tos of executing a program. Fall only. **Prerequisite:** CIS 1003 (Introduction to Computers).

CIS 2063 DATABASE MANAGEMENT 3-0-3

Provides instruction in database applications and the fundamentals of database design. Topics include database structure, database processing. Students receive hands-on experience with microcomputer application programs that access a database. Fall only. **Prerequisite:** CIS 1053 (Computer Software Applications).

CIS 2153 C# PROGRAMMING WITH GAMES 3-0-3

C# programming introduces the student to problem solving, design, coding, debugging, and documentation of programs using the C# language. The course will use the development of games to enhance this learning experience. Fall only. **Prerequisites:** CIS 1003 (Introduction to Computers).

CIS 2214 NETWORKING HARDWARE I WITH LAB 3-2-4

Provides the fundamental knowledge needed to design, configure and implement a Local Area Network. Emphasizes the integration of available software and hardware elements and provides a good understanding of network architecture and protocols. Uses CISCO curriculum. Fall only. **Prerequisite:** CIS 1033 (PC Hardware).

CIS 2223 NETWORKING SOFTWARE 3-0-3

Explores basic and advanced Windows Operating System computer network administrative techniques valuable for network managers, PC support personnel, programmers, and system and network administrators. Students will install local area network software using PC compatible microcomputers and learn to

administer a network utilizing Windows. Spring only. **Prerequisite:** CIS 1033 (PC Hardware).

CIS 2224 NETWORKING HARDWARE II WITH LAB 3-2-4

Provides advanced knowledge of CISCO routers. Emphasis is placed on subnets, routing protocols and access list. Also developing systems from inception. Spring only. **Prerequisite:** CIS 2214 (Networking Hardware I).

CIS 2233 COMPUTER SECURITY 3-0-3

Presents an in-depth orientation the fundamentals of computer system security. Topics include monitoring, incident response, forensic analysis, hardware and software security, network security and encryption. Students will receive hands-on experience with various security techniques in a lab setting.

CIS 2253 INTERNET/WEBPAGES/SOFTWARE PLATFORM 3-0-3

Explores communications and networking terminology via the Internet. Students will learn communications and networking principles and applications along with skills necessary for designing Web Pages. Utilizes Microsoft FrontPage and HTML.

CIS 2303 DYNAMIC WEB DEVELOPMENT 3-0-3

Introduces the basic elements of dynamic web design: database connectivity, data retrieval, data validation and data maintenance. Examine how these elements can be combined to create effective layouts. Teaches organization of data, concept development, site planning and methods of dynamic web page development. **Prerequisite:** CIS 2253 (Internet/Web Page/ Software Platform).

CIS 2403 E-COMMERCE AND WEB MARKETING 3-0-3

An overview of the Internet as a marketing and sales tool with emphasis on technology. Topics include database technology, creating web sites in order to collect information, performing transactions online and generating dynamic content. Spring only. **Prerequisites:** Bus 2513 (Principles of Marketing), CIS 2413 (Web Design I) and CIS 2423 (Web Design II).

CIS 2413 WEB DESIGN I 3-0-3

Introduces the basic elements of web page design: typography, imagery and color. Examines how these elements can be combined to create effective layouts. Teaches organization of materials, concept development, site planning, and various methods of web page construction. Fall only. **Prerequisites:** CIS 2253 (Internet/ Web Page/ Software Platform) and CIS 1103 (Computer Graphics).

CIS 2423 WEB DESIGN II 3-0-3

A study of HTML and layout techniques used for creating engaging, well-designed web pages. An emphasis will be placed on producing web sties through the use of software packages available. Fall only. **Corequisite:** CIS 2413 (Web Design I).

CIS 290(1-9) SPECIAL TOPICS/CIS

3-0-3

Provides an opportunity for students to study topics of current and/or professional interest in the field of computer information systems. Topics studied must be approved by the Division Chair of Business, Technology and Public Service and should not duplicate material covered in the technical core.

NURSING ASSISTANT

CNA 1107 NURSING ASSISTANT

6-5-7

A study of nurse assisting including communication and interpersonal skills; infection prevention and control; safety and emergency procedures; promoting independence and respecting resident rights; introduction to resident care; personal care; basic nursing skills; social, cognitive and behavioral skills.

COLLEGE SUCCESS

COL 1003 STRATEGIES FOR COLLEGE SUCCESS

3-0-3

An orientation designed to assist students in developing strategies for meeting the demands of college life. Topics include making the transition to college; becoming motivated for success; managing one's time more effectively; reading a textbook; taking lecture notes and examinations; making decisions; seeking and selecting a career; and locating and using various campus resources.

COL 1011 INFORMATION LITERACY

0-2-1

The Information Literacy course is designed to help students become full participants in our Information Society. Primarily practical in scope, the course uses a mixture of lecture and hands-on assignments to give the technical skills and critical thinking abilities you need to use printed and electronic information resources in libraries and on the Internet. After successfully completing this course, students will be able to locate, critically evaluate and apply information in academic courses and in professional and personal life.

CRIMINAL JUSTICE

CRJ 1103 INTRODUCTION TO CRIMINAL JUSTICE

3-0-3

Introduces the student to the history, development, and philosophy of law enforcement, courts, and corrections in a democratic society. An overview of the United States Criminal Justice system is an integral part of this course.

CRJ 1203 LAW ENFORCEMENT ETHICS

3-0-3

An examination of ethical issues encountered by law enforcement. Includes the study of ethical decisions, physical force, discretion, misconduct, authority and responsibility, undercover operations, and privacy.

CRJ 1303 CRIMINAL PROCEDURES AND EVIDENCE

3-0-3

Focuses on the criminal process, legal problems associated with investigation of crime, acquisition and preservation of evidence, the rules of evidence, admissibility of evidence, exclusion of illegally seized evidence, hearsay evidence, opinion and expert testimony, commencement of criminal proceedings, prosecution and defense of charges, sentencing and appeal. Spring only.

CRJ 1403 CRIMINAL INVESTIGATIONS 3-0-3

A study of the fundamentals of criminal investigation, both theory and history; from crime scene to courtroom with an emphasis on techniques appropriate to specific crime scenes. Spring only.

CRJ 2103 POLICE COMMUNITY RELATIONS 3-0-3

A basic introductory course treating the broad field of Police and Community Relations. Focusing particularly on police and community response, the role of progressive police activity and the individual officer in achieving and maintaining positive public support, human relations and information relationships necessary in policing a complex society. Fall only. **Prerequisite:** CRJ 1103 (Introduction to Criminal Justice), CRJ 1203 (Law Enforcement Ethics).

CRJ 2203 ARKANSAS CRIMINAL LAW 3-0-3

A study of the criminal statutory provisions in the State of Arkansas including the interpretation of the statutory criminal law as set forth by the Arkansas and U.S. Supreme Courts. **Prerequisite:** CRJ 1103 (Introduction to Criminal Justice).

CRJ 2303 INTRODUCTION TO FORENSIC SCIENCE 3-0-3

A study of physical evidence at the crime scene. Includes searching the crime scene, determining evidence, and the proper collection and packaging of evidence. Other areas of forensic evidence will be presented. Fall only.

CRJ 2403 JUVENILE JUSTICE 3-0-3

A comprehensive study of the juvenile justice system including the rights and responsibilities of parents and children, police authority, the social service system, and the juvenile court and corrections systems. **Prerequisite:** CRJ 1103 (Introduction to Criminal Justice). Fall only.

CRJ 2503 LEGAL WRITING 3-0-3

This course provides a working knowledge of the fundamentals of effective legal writing, analysis, and research. Topics include legal briefs and memoranda, case and fact analysis, citation forms, legal writing styles, field note taking techniques, and effective report writing. **Pre-requisite:** CRJ 1303 (Criminal Procedure/Evidence) and ENG 1103 (English Composition I).

CRJ 290(1-9) SPECIAL TOPICS / CRIMINAL JUSTICE 3-0-3

Provides an opportunity for students to study topics of current and/or professional interest in the field of criminal justice. Topics studied must be approved by the Division Chair of Business, Technology and Public Service and should not duplicate material covered in the technical core. Students presenting evidence of graduation from the Arkansas Law Enforcement Training Academy can receive 6 credit hours under this course heading.

EARLY CHILDHOOD EDUCATION

ECE 1003 FOUNDATIONS OF EARLY CHILDHOOD EDUCATION 9-1-3

This course is designed to acquaint the student with the historical roles of families in their child's development. The student will become familiar with theories early childhood education is based upon and learn how to develop an effective program designed uniquely for children birth to five. The student will also obtain knowledge of state and federal laws pertaining to the care and education of young children. (CDA Block Course.)

ECE 1103 CHILD DEVELOPMENT

9-1-3

This course focuses on children birth to age eight and covers all aspects of a child's physical and cognitive growth and social-emotional development. The students will be introduced to ways to observe and evaluate children's development and recognize possible delays in development. (CDA Block Course.)

ECE 1203 EARLY CHILDHOOD LEARNING ENVIRONMENTS

9-1-3

This course is designed to provide the student with a broad knowledge based on how to design a program for children developing both typically and atypically. The course provides the opportunity to plan environments that are physically and emotionally secure. The students will plan to implement activities that are age, stage and culturally appropriate for children birth to five. (CDA Block Course.)

ECE 1303 PRACTICUM I

3-0-3

Students must be employed or volunteer in a licensed childcare facility in order to apply the skills learned in the previous three courses. Observation of the student's work and evaluation of student skills are conducted by instructors following the CDA standards. Students must demonstrate competence in 13 functional areas. Professional resource files and all CDA requirements must be completed during the practicum so that the student is eligible for CDA assessment. The minimum clock hours are 144. (480 clock hours are needed if the student intends to assess for the CDA upon completion of current semester.) If not currently working in a child care facility, the student will be assigned a specific site to volunteer, observe and be observed by the early childhood instructor. The sites will be chosen by the instructor in relation to where the students live and the quality of the programs.

ECE 2003 CHILD BEHAVIOR AND GUIDANCE

3-0-3

Provides instruction by relating the principles of child development to appropriate methods of guiding children's behavior. Techniques for managing groups of children in the childcare setting are practiced. **Prerequisite:** ECE 1003, 1103, 1203 or CDA. Spring only.

ECE 2103 PRESCHOOL CURRICULUM

3-0-3

Introduces the process and practices involved with planning developmentally appropriate curricula for children ages two to five years. Use of NAEYC standards is emphasized. Meets CDA renewal requirements for preschool endorsement. **Prerequisite:** ECE 1003, 1103, 1203 or CDA. Fall only.

ECE 2203 INFANT/TODDLER CURRICULUM

3-0-3

Introduces the process and practices involved with planning developmentally appropriate curricula for infants and toddlers in-group care. Use of NAEYC standards is emphasized. Meets CDA renewal requirements for infant/toddler endorsement. **Prerequisite:** ECE 1003, 1103, 1203 or CDA. Spring only.

ECE 2303 PRACTICUM II

3-0-3

Practical application of skills learned in the previous three courses are applied in a licensed childcare setting. Observations and evaluations continue to be based upon CDA guidelines but will reflect requirements for advanced skills acquisition. Students who have not yet applied for CDA assessment are required to do so at the end of this course. **Prerequisite:** ECE 1003, 1103, 1203 or CDA. If not

currently working in a child care facility the student will be assigned a specific site to volunteer, observe and be observed by the early childhood instructor. The sites will be chosen by the instructor in relation to where the students live and the quality of the programs.

ECE 2503 PROGRAM ADMINISTRATION 3-0-3

Provides instruction in topics pertinent to the current and future childcare director/owner. Students will plan all aspects of opening a childcare center including budgeting, personnel management, marketing and meeting state licensure requirements. Spring only. **Prerequisite:** ECE 1003, 1103 and 1203 or CDA.

ECE 2603 SEMINAR FOR EARLY CHILDHOOD ADMINISTRATORS 3-0-3

A study of administrative topics in early childhood education, which are of current and/or future interest to students in this degree program. A focus is placed upon the development of professionalism in the field of early childhood. Fall only. **Prerequisite:** ECE 1003, 1103 and 1203 or CDA.

ECE 290(1-9) SPECIAL TOPICS / EARLY CHILDHOOD EDUCATION 3-0-3

Provides an opportunity for students to study topics of current and/or professional interest in the field of Early Childhood Education. Topics studied must be approved by the Division Chair of Business, Technology and Public Service and should not duplicate material covered in the technical core.

ECE 2903 ART, MUSIC AND CREATIVE MOVEMENT 3-0-3

Students will receive training in developmentally and age appropriate areas of children's art, music and movement. Participants will be involved in real hands-on activities and learning experiences. NAEYC standards and practices will be followed. Summer only. **Prerequisites:** ECE 1003, 1103 and 1203 or CDA.

ECE 2913 CHILDREN'S LITERATURE 3-0-3

A study of children's literature for use with infants, toddlers and preschoolers. Students will plan and implement activities around major authors and develop creative projects using the Resource Center and library. Summer only. **Prerequisite:** ECE 1003, 1103, 1203 or CDA.

ECE 2923 LANGUAGE ARTS FOR CHILDREN 3-0-3

This course is designed to make the early childhood educator aware of how language is acquired and how to provide children birth through age 5 with language rich environments by incorporating the four areas of language: speaking, listening, writing and reading into the curriculum. The skills taught in this course will be used to help children develop pre-reading and pre-writing skills. **Prerequisites:** ECE 1003, 1103 and 1203 or CDA.

ECE 2933 SOCIAL STUDIES AND MULTICULTURAL EDUCATION FOR PRESCHOOL CHILDREN 3-0-3

This course covers the skills needed by preschool teachers to plan, develop, and present developmentally appropriate multicultural and social studies curriculum and activities for preschool children. Includes skills and attitudes young children need to develop in our world today. **Prerequisites:** ECE 1003, 1103 and 1203 or CDA.

ECE 2943 MATH AND SCIENCE FOR PRESCHOOL CHILDREN 3-0-3

This course covers the skills needed by preschool teachers to plan, develop and present developmentally appropriate activities in math and science for young children. The course presents a hands-on approach to teaching science and math by offering basic experiments in ecology, biology and physical science. Emphasis will be placed on the following three types of learning: naturalistic, informal and structured. **Prerequisites:** ECE 1003, 1103 and 1203 or CDA.

ECONOMICS

ECN 2013 MACROECONOMICS 3-0-3

Provides an overall view of how economic systems operate. Topics include aggregate production, income, and expenditures, fiscal and monetary policy, inflation and unemployment, and money and banking. Students gain an awareness of economic problems and analyze alternative solutions. **Prerequisite:** Any one of the following: A grade of C or better in MTH 0003 (Introduction to Algebra), with study in MTH 0013 (Intermediate Algebra) highly recommended; Enhanced ACT Math subscore of 17-18; or ASSET score of 37 or above in Intermediate Algebra.

ECN 2023 MICROECONOMICS 3-0-3

Will examine individual behavior in the economy as well as look at the components of the larger economy. Microeconomic analysis, including market structure, supply and demand, production costs and price and output. **Prerequisites:** Any one of the following: A grade of C or better in MTH 0003 with study in MTH 0013 highly recommended; enhanced ACT math subscore of 17 to 18; or an ASSET score of 37 or above in Intermediate Algebra.

EDUCATION

EDU 2003 INTRODUCTION TO TEACHING 2-1-3

This course is designed to provide students with an overview of teaching as a profession, providing them with an opportunity to observe the educational process in three settings – elementary, middle school and secondary. Thirty classroom observation hours are required.

EDU 2103 INTRO TO K12 EDUCATIONAL TECHNOLOGY

This three-hour course is designed to provide students with an overview of the technologies that can enhance teaching and learning. Students will use the computer as a tool to design educational materials, perform classroom management tasks, enhance instruction, communicate and research.

EMERGENCY MEDICAL TECHNICIAN

EMT 1107 BASIC EMERGENCY MEDICAL TECHNOLOGY 6-3-7

An introduction to the study of emergency medical services and the basic principles, procedures and techniques of emergency care. Successful completion of this course prepares students to apply for the National Registry EMT-B Examination.

EMT 2099 PARAMEDIC I 9-0-9

Designed to prepare the Emergency Medical student to perform advance life support skills; specifically, the recognition of Dysthythmias and Advance Cardiac Life Support Certification. The class will prepare the student for the skills needed to properly start and administer intravenous medications. Endotracheal intubations will be taught in this section with the use of emergency meds administered via the endotracheal airway. Students will be prepared for the clinical portion after completion of the Paramedic I program. It is mandatory for the paramedic to pass this portion of the program in order to continue with the clinical portion of the program.

EMT 2217 PARAMEDIC II 0-21-7

A six-week course designed to prepare the student with both the clinical experience in the hospital setting and field internship experience in the pre-hospital setting. The student will be scheduled clinical rotations in the emergency room, coronary care units, mental health, pediatric units, and labor and delivery. Field internship will be scheduled with local and surrounding county paramedic services. Lecture as well as clinical will be involved in the Paramedic II program. The completion hours for this portion are 300 hours of field internship. Completion of Paramedic I is mandatory in order to participate in this portion of the program.

EMT 2218 PARAMEDIC III 9-27-18

A 16-week course designed to prepare the student with the skills needed to treat the critically ill and injured patient. The semester will focus on the recognitions of medical, trauma, pediatrics, geriatrics, and ob/gyn emergencies. The student will be prepared for the practical portion as well as the written portion of the National Registry Exam. The student will complete 400 hours in the hospital setting during this portion of the program.

ENGLISH

ENG 1103 ENGLISH COMPOSITION I 3-0-3

Students improve their writing skills through study and practice of fundamentals of written communication, including principles of grammar, punctuation, spelling, organization, and careful analytical reading. **Prerequisite:** College level placement scores in English or writing or completion of PRE 0503 (Basic Writing) with a C or better.

ENG 1203 ENGLISH COMPOSITION II 3-0-3

Students continue the practice of ENG 1103 (English Composition I) to develop further the skills learned in that course. Using readings and discussion of various types of writing, students will practice different kinds of rhetorical development, including research and documentation. **Prerequisite:** ENG 1103 (English Composition I) with a C or better.

ENG 1303 TECHNICAL WRITING 3-0-3

Students learn the basic principles of technical report research, organization, and writing. Assignments include writing proposals, progress reports, and technical articles. **Prerequisite:** ENG 1103 (English Composition I with a grade of C or better).

ENG 2113 WORLD LITERATURE I 3-0-3

Students analyze and interpret literary works from several historical periods ranging from early civilizations through the Renaissance.

ENG 2213 WORLD LITERATURE II 3-0-3

Students analyze and interpret literary works from several historical periods ranging from the Renaissance to the present.

ENG 2313 INTRODUCTION TO FICTION 3-0-3

Students survey short fiction and the novel with emphasis on analytical reading and writing skills.

ENG 2413 CREATIVE WRITING 3-0-3

Students develop creative perception, thinking, and imagination in writing fiction and poetry. Students will have their work read and critiqued in a workshop format as well as in conference with the instructor. **Prerequisite:** ENG 1103 (English Composition I) or consent of instructor.

ENG 2503 AMERICAN LITERATURE I 3-0-3

American Literature I students will analyze and interpret literary works from the 1400's to 1865. Students will study American authors and the philosophies represented in their works. **Prerequisite:** Successful completion of ENG 1103 (English Composition I) and ENG 1203 (English Composition II) with a C or better.

ENG 2513 AMERICAN LITERATURE II 3-0-3

American Literature II is a continuation of American Literature I. Students will analyze and interpret works from 1865 to present literature. American Literature I is not a prerequisite for American Literature II. **Pre-requisite:** ENG 1103 (English Composition I) and ENG 1203 (English Composition II) with a C or better.

ENTOMOLOGY

ENTO 2003 PEST MANAGEMENT 3-0-3

An introduction to basic principles of pest management as they relate to vertebrates, insects, plant disease, and weeds. Selected pests are studied with emphasis on current management approaches and alternative pest control. **Prerequisite:** ANSC 1003 (Introduction to Animal and Poultry Sciences).

CINEMA

FAC 2003 UNDERSTANDING FILM 3-0-3

This course will introduce students to the notion of viewing and understanding movies critically and seeing them in a larger artistic and cultural context.

MUSIC

FAM 2003 MUSIC 3-0-3

For listeners who have had no formal training or experience, this course provides an introduction to music. The principal purpose is the development of listening skills.

THEATER

FAT 2013 THEATER 3-0-3

Provides students with an appreciation of how various artistic elements combine to produce theatrical productions.

FAT 2033 ACTING I 3-0-3

Explores the craft of acting through script analysis and techniques of characterization.

VISUAL ART

FAV 1003 DRAWING I 3-0-3

An introductory course in the materials and techniques of drawing, including basic concepts of line, perspective, and value. Techniques will be developed with the study of still life, perspective, portraits, and figures, while special projects encourage creative expression. Spring only.

FAV 1013 INTRODUCTION TO STUDIO ART 3-0-3

A hands-on approach to the fundamental media, techniques, and concepts of making art. A variety of materials and projects will encourage creative problem solving. Drawing, design, painting, and sculptural techniques will be introduced, with an emphasis on exploration and individual creativity. Fall only.

FAV 1023 DRAWING II 3-0-3

A continuation of Drawing I, furthering technical mastery of materials while developing creative expression. **Prerequisite:** FAV 1003 (Drawing I).

FAV 2023 VISUAL ART 3-0-3

Students encounter visual art in many media to develop their artistic perception, understanding, and pleasure.

FAV 1033 INTRODUCTION TO PAINTING 3-0-3

Color theory and two-dimensional design problems will be addressed while exploring basic watercolor and acrylic painting techniques. **Prerequisite:** FAV 1003 (Drawing I) or FAV 1013 (Introduction to Studio Art) or written permission of the instructor.

FINANCE

FIN 1003 PRINCIPLES OF BANKING 3-0-3

An introductory course designed to orient the student to the banking profession. Course topics range from the fundamentals of negotiable instruments to contemporary issues and developments within the industry. Rotated every third semester.

FIN 1113 LAW AND BANKING: APPLICATIONS 3-0-3

An introduction to laws pertaining to secured transactions, letters of credit and the bank collection process. Rotated every third semester.

FIN 1203 MONEY AND BANKING 3-0-3

Presents a fundamental treatment of how money functions in the US and world economies. Topics include the concept of money supply and the role banks play as a money creator and participant in the nation's payment mechanism. Money

and Banking explains how the various types of financial institutions operate, the workings of monetary and fiscal policies and the functions and powers of the Federal Reserve. Rotated every third semester.

FIN 2003 ANALYZING FINANCIAL STATEMENTS 3-0-3

A practical introduction to financial analysis from the viewpoint of the commercial loan officer, this course provides skills needed to effectively assess a borrower's ability to repay loans. **Prerequisite:** ACC 1013 (Principles of Accounting I). Rotated every third semester.

FIN 2013 CONSUMER LENDING 3-0-3

Essential information about the maze of regulations governing credit practices and reviews loan processing, cross selling and collections. Rotated every third semester.

GEOGRAPHY

GEOG 2003 INTRODUCTION TO CULTURAL GEOGRAPHY 3-0-3

A study of interaction among cultures and physical environments to develop students' understanding of local and global social issues such as economics, language, population, politics, and religion.

GEOLOGY

GEOL 1003-01 PHYSICAL GEOLOGY 3-0-3

Introduces geologic concepts including plate tectonics, volcanism, earthquakes, mountain building, glaciation, and hydrologic processes. Students will identify basic minerals and rocks. The rock cycle and its effect of sedimentary, igneous, and metamorphic rocks will be explored. Relationships to Arkansas geology will be featured. **Corequisite:** GEOL 1001-01 (Physical Geology Lab)

GEOL 1001-01 PHYSICAL GEOLOGY LAB 0-2-1

Provides a laboratory experience to support GEOL 1003-01. Students will identify basic minerals, fossils, and rocks, their origins and economic values. Geologic map reading will be practiced. Students will be able to identify geologic structures on maps and photos. Field trips will enhance the lab experience. **Corequisite:** GEOL 1003-01 (Physical Geology)

HISTORY

HIST 1013 WORLD CIVILIZATION I 3-0-3

Exploration of the great civilizations, with emphasis on the main historical currents influencing modern society.

HIST 1023 WORLD CIVILIZATION II 3-0-3

Exploration of the great civilizations, with emphasis on the past three centuries.

HIST 2003 UNITED STATES HISTORY I 3-0-3

Explores social, economic, and political developments from Columbus to the end of Reconstruction.

HIST 2013 UNITED STATES HISTORY II **3-0-3**

Explores social, economic and political developments from Reconstruction to the present.

HIST 2033 THE AMERICAN CIVIL WAR **3-0-3**

The course studies the causes, character, and importance of the Civil War, including the role Arkansas played during the war. Fall only.

HIST 2043 THE VIETNAM WAR **3-0-3**

A comprehensive look at America's role in the Vietnam War from 1954 to 1975, with balanced emphasis on military and political events and focus on experiences and memories of Vietnam war veterans. Spring only.

HIST 2053 ARKANSAS HISTORY **3-0-3**

A view of the major economic, military, political, religious, and social events in the territory and state of Arkansas from early modern Native American cultures to the twenty-first century. Students will gain a greater appreciation of the people and events that have shaped life in Arkansas.

INDUSTRIAL TECHNOLOGY

IDT 1003 INTRO TO MANUFACTURING TECHNOLOGY **3-0-3**

Examines the basic elements of manufacturing as a managed body of activities. Topics include manufacturing systems, materials, processes, management, and careers.

IDT 1013 BLUEPRINT/SCHEMATIC READING **3-0-3**

Emphasizes the interpretation of drawings, blueprints, schematics, and related symbols including measurement and the use of related measuring tools.

IDT 1114 INTRODUCTION TO ELECTRONICS **3-2-4**

Covers the principles of DC electricity. The concepts of voltage, current and resistance as well as engineering notation and the use of metric prefixes will be covered. Students will use basic algebra to calculate the circuit parameters of series and parallel DC circuits. Classroom theory will be backed up with lab experiments. **Prerequisite or concurrent enrollment:** MTH 0003 (Introduction to Algebra).

IDT 1204 BASIC ELECTRONICS II **3-2-4**

Covers the principles of AC electricity. The effects of resistance, capacitance and inductance on AC voltages and currents will be covered. Students will use algebra and basic trigonometry to calculate circuit parameters of series and parallel AC circuits. Classroom theory will be backed up with lab experiments. **Prerequisite:** MTH 0013 (Intermediate Algebra) and IDT 1114 (Introduction to Electronics).

IDT 1214 TECHNICAL PHYSICS **3-2-4**

Presents basic physics concepts, including force, work, rate, momentum, resistance, power, and wave motion. Unifying principles are applied to problems in electrical, mechanical, fluid, and thermal systems. **Prerequisite:** MTH 0013 (Intermediate Algebra).

IDT 2104 MICROPROCESSORS

3-2-4

Introduces microprocessors and a variety of topics including computer number systems and codes, computer architecture, assembly language programming, computer memory, peripheral devices, digital to analog and analog to digital conversions, and computer interfacing. **Prerequisite:** IDT 1114 (Introduction to Electronics). **Prerequisite or concurrent enrollment:** IET 1204 (Digital Technology).

IDT 2114 AC/DC MOTOR CONTROLS

3-2-4

Provides instruction in basic theory of operation of single- and three-phase AC/DC motors. Also, motor control circuits along with wiring practices, preventative maintenance, and troubleshooting. **Prerequisites:** IDT 1114 (Introduction to Electronics).

IDT 2123 INDUSTRIAL SAFETY

3-0-3

Explores the development of the safety and health movement in the United States. It will identify the causes and effects of accidents. This course will discuss OSHA, workers compensation, ergonomic factors, common hazards found in the work place and the roles of managers and health and safety personnel concerning industrial safety.

IDT 2124 PROGRAMMABLE CONTROLS

3-2-4

Introduces Programmable Controllers (PLC's) including input/output processor units, programmable devices, and memory organization. **Prerequisites:** IDT 1114 (Introduction to Electronics).

IDT 2134 ADVANCED PLCs

3-2-4

This course is a follow-on course to IDT 2124 Programmable Controls. Intermediate and advance PLC functions will be discussed. Quality programming and program documentation will be stressed. **Prerequisites:** IDT 2124 (Programmable Controls).

IDT 2523 INTERNSHIP

3-0-3

A cooperative program between the student, the College, and business and industry to begin to develop the necessary skills needed to be successful in the job environment. Students spend 4 weeks in class and 80 hours on-the-job training during the semester. Students work with the instructor to develop meaningful learning objectives based on the job assignments. Must be taken during the final semester of the student's program. Spring only. **Prerequisite:** Instructor approval required. Cross listed BUS 2653.

INDUSTRIAL ELECTRONICS TECHNOLOGY

IET 1104 SEMICONDUCTOR FUNDAMENTALS

3-2-4

Introduces semiconductor and solid-state components. Topics covered include the diode, zener diode, diode for special applications, transistors, and transistor amps. Some special solid-state components are discussed. **Prerequisites:** IDT 1114 (Introduction to Electronics).

IET 1204 DIGITAL TECHNOLOGY **3-2-4**

Introduces the principles and hardware used in basic digital circuits. Topics covered include number systems, gates, codes, encoding, decoding, flip-flops, counters, and shift registers. **Prerequisite:** IDT 1114 (Introduction to Electronics).

IET 2004 ROBOTICS **3-2-4**

Fulfills the education requirements of students involved in the field of intelligent mechanisms. Includes an introduction to robots, remote microcomputer sequence design, and the use of robotics programming language. Spring only.

IET 2104 INDUSTRIAL INSTRUMENTATION **3-2-4**

Emphasizes the safe operation and maintenance of sensors, transducers, controllers final control elements and other devices used in control of pressure, temperature, flow, and level. **Prerequisites:** IDT 1114 (Introduction to Electronics) and IET 1104 (Semiconductor Fundamentals). Fall only.

Prerequisite or concurrent enrollment: IET 1204 (Digital Technology).

INDUSTRIAL MAINTENANCE TECHNICIAN

IMT 1103 BASIC WELDING **1-4-3**

Provides a study of basic metallurgy; properties and classification of metals. The theory and application of basic oxyacetylene and shielded metal arc welding (SMAW) is presented and includes the set-up of equipment, selecting electrodes, and running of beads in the flat position. Practical application is provided in the lab, with emphasis on safety.

IMT 1104 FUNDAMENTALS OF FLUID POWER **3-2-4**

A study of the theory of the operations of fluid power (hydraulics and pneumatics), as well as repair of the component parts.

**IMT 1114 BASIC AIR CONDITIONING, REFRIGERATION
AND HEATING** **3-2-4**

A study of heating, ventilation, and air-conditioning that emphasizes the fundamentals of HVAC systems. **Prerequisite:** IDT 1114 (Introduction to Electronics).

**IMT 1214 INTERMEDIATE AIR CONDITIONING, REFRIGERATION
AND HEATING** **3-2-4**

This course expands on the fundamental knowledge that was covered in the Basic Air Conditioning, Refrigeration, and Heating course, IMT 1114, with a stronger emphasis on diagnostic service and repair of refrigerators, freezers, and residential-to-light commercial systems. This course will also cover preventive maintenance and repair of the systems. **Prerequisite:** IMT 1114 (Basic Air Conditioning, Refrigeration and Heating).

IMT 1203 INTERMEDIATE WELDING **1-4-3**

This course will cover the theory and application of intermediate SMAW (stick), intermediate GMAW (mig) and basic to intermediate GTAW (tig) processes. Equipment set-up, filler metal selection and weld inspection will be covered. Safety will be a priority. **Prerequisite:** IMT 1103 (Basic Welding).

IMT 1204 INDUSTRIAL ELECTRICITY 3-2-4

A continuation of Basic Electricity/Electronics I & II. Introduces students to electricity and power distribution in industrial and residential environments; industrial and residential wiring methods; single and three-phase service panels; and single and three-phase transformers. Includes an introduction to the National Electric Code (NEC) and code requirements for residential and industrial environments. **Prerequisites:** IDT 1114 (Introduction to Electronics).

INDUSTRIAL TECHNOLOGY MANUFACTURING

ITM 2003 PRODUCTION AND INVENTORY CONTROL 3-0-3

This course consists of discussions of: production systems, elements of planning and control, techniques for production planning, techniques for process planning, production scheduling, inventory replenishment, and material requirements planning.

ITM 2023 PROBLEM SOLVING & TEAM WORK FOR INDUSTRY 3-0-3

This course consists of discussions of interpersonal communications, developing teamwork skills, group problem solving and decision making, resolving conflicts with others, motivating others, enhancing ethical behavior, and stress management.

ITM 2033 ECONOMIC ANALYSIS FOR INDUSTRY 3-0-3

This course consists of discussions of financial concepts; the time value of money; analyzing, selecting, monitoring, and evaluating projects; breakeven analysis; and the economics of quality.

ITM 2043 QUALITY CONTROL FOR INDUSTRY 3-0-3

This course consists of discussions of quality assurance concepts, methods used to control quality, nondestructive testing methods and an introduction to ISO 9000. In addition, the statistics and probability concepts of distribution, plotting and graphing, normal distributions, and probability distributions are covered.

ITM 2103 TIME AND MOTION STUDY 3-0-3

This course discusses the techniques and procedures of motion and time study for the lean environment. Information covered includes work station design, job analysis, performance control systems, time standards, and time management techniques.

ITM 2117 MANUFACTURING PLANT LAYOUT 3-0-3

This course covers the layout of manufacturing facilities and the methods of material handling. Topics covered include sources of information for manufacturing facilities design, process design, flow analysis, activity relationship analysis, auxiliary services requirements, material handling, and material handling.

ITM 2203 SUPERVISION FOR INDUSTRY 3-0-3

This course pays particular attention to the unique issues, ideas, and trends which affect the supervisor in an industrial setting. Discussion topics include: technology and the supervisor; ethics and the supervisor; planning, scheduling, organizing, and controlling; productivity, problem solving, and legal issues. (Cross-listed with BUS 2203.)

MEDICAL OFFICE MANAGEMENT**MOM 1013 INTRO TO HEALTH CARE SYSTEMS 3-0-3**

Examines the administration and structure of health care delivery in the United States. The course also provides information regarding the health care system development and discusses organizational patterns, facilities, health care personnel, and the economic, political, and environmental influences that affect the health care system. Fall only.

MOM 2013 LEGAL CONCEPTS IN HEALTH CARE 3-0-3

Provides an overview of the principles of law as applied to health care. The course gives consideration to the importance of medical records as legal documents, to the legal aspects of health care organizations, to the release of information, and to consents and authorizations. Spring only.

MOM 2023 MEDICAL DIAGNOSIS CODING AND BILLING 3-0-3

Develops a working knowledge of general code matching and diagnosis assignments used in hospitals, clinics, and insurance offices for health-care industry. Emphasis is placed on purpose of coding, definitions of key terms, accurate application of coding principles and an overview of the impact of prospective reimbursement on the function of coding; principles of classification. Familiarization with standard coding references is provided (CPT, ICD-9). Fall only. **Prerequisite:** OFA 1053 (Medical Terminology).

MOM 2033 MEDICAL OUTPATIENT CODING AND BILLING 3-0-3

This course is designed to develop a basic knowledge of how to apply the coding rules to bill for patient services. In addition, a variety of payment systems will be presented – DRG, APC, RUGS. Spring only. **Prerequisite:** OFA 1053 (Medical Terminology).

MATHEMATICS**MTH 0003 INTRODUCTION TO ALGEBRA 3-0-3**

An introduction to algebra, problem solving, operations with real numbers, ratio, proportion, linear equations, and systems of linear equations. Enrollment is based on placement test scores. (Credit not applicable toward a degree or certificate.)

MTH 0013 INTERMEDIATE ALGEBRA 3-0-3

Students explore polynomials, square roots, complex numbers, rational expressions, basics in right triangle, trigonometry, exponentials, and logarithmic functions. **Prerequisite:** Grade of C or better in MTH 0003 (Introduction to Algebra); or Enhanced ACT math subscore of 17-18; or an ASSET score of 37 or above in Intermediate Algebra.

MTH 1013 TRIGONOMETRY 3-0-3

Covers right triangle trigonometry applications, including the laws of sines and cosines, radian measure and applications, trigonometric functions of real numbers, graphs of trigonometric functions, trigonometric identities and equations, polar coordinates, complex numbers in polar (trigonometric) form. A calculator with trigonometric functions is required. **Prerequisite:** Grade of C or better in MTH 0013 (Intermediate Algebra); or an enhanced ACT math subscore of 19 or above; or an ASSET score of 43 or above in Intermediate Algebra.

MTH 1023 COLLEGE ALGEBRA**3-0-3**

Presents polynomial, rational, exponential logarithmic functions, and their graphs; conic sections; and systems of equations. This course is approached from the graphing standpoint (graphing calculator required). **Prerequisite:** Grade of C or better in MTH 0013 (Intermediate Algebra); or an Enhanced ACT math subscore of 19 or above; or an ASSET score of 43 or above in Intermediate Algebra.

MTH 2003 SURVEY OF CALCULUS / BUSINESS CALCULUS**3-0-3**

Includes selected topics in elementary calculus and analytic geometry for students in business, agriculture, and social sciences. **Prerequisite:** Grade of C or better in MTH 1023 (College Algebra).

MTH 2005 CALCULUS I, CALCULUS AND ANALYTIC GEOMETRY**5-0-5**

Covers the first 5 hours of 13 hours (a three-course sequence) in calculus designed to teach the fundamentals of differential and integral calculus needed in applications, including multivariate calculus. Topics include limits of functions, the derivative, applications of the derivative, the fundamental theorem of calculus, the definite integral, applications of the definite integral, the trigonometric, exponential, and logarithmic functions. **Prerequisite:** Grade of C or better in MTH 1023 (College Algebra) and MTH 1013 (Trigonometry) or consent of instructor.

MTH 2015 CALCULUS II, CALCULUS AND ANALYTIC GEOMETRY**5-0-5**

The second 5 hours of 13 (a three-course sequence) in calculus designed to teach the fundamentals of differential and integral calculus, including multivariable functions. Topics include exponential and logarithmic functions, natural growth and decay, trigonometric and hyperbolic functions, polar coordinates, conic sections, infinite series. **Prerequisite:** Grade of C or better in MTH 2005 (Calculus I).

MTH 2024 CALCULUS III, CALCULUS AND ANALYTIC GEOMETRY**3-0-3**

The third 3 hours of 13 (a three-course sequence) in calculus. The topic is multivariable calculus. **Prerequisite:** Grade of C or better in MTH 2015 (Calculus II).

MTH 2053 STATISTICS**3-0-3**

Covers descriptive and inferential statistical techniques and methods in life, physical, and social science. Topics include qualitative data analysis, frequency distributions, numerical methods, data dispersions, variance analysis, estimation theory, sampling distributions, discrete and continuous probability distributions, hypothesis testing, and confidence interval estimation. **Prerequisite:** Grade of C or better in MTH 1023 (College Algebra) or equivalent.

MTH 2103 MATH FOR TEACHERS I**3-0-3**

Focuses on sets, logic, and numbers with emphasis on the axiomatic development of the real numbers. **Prerequisite:** A grade 'C' or better in MTH 1023 (College Algebra).

MTH 2113 MATH FOR TEACHERS II**3-0-3**

Focuses on mathematical systems, elementary algebra, probability and statistics, and geometry with applications. **Prerequisite:** A grade 'C' or better in MTH 2103 (Math for Teachers I).

BSN PREREQUISITE COURSES

NSG 2003 NUTRITION 3-0-3

Covers the fundamentals of normal and clinical nutrition. Information regarding clinical nutrition is organized according to an organ system/disease states approach. Topics such as fitness, consumer concerns, cancer and AIDS are included. Fall only. **Prerequisite/Corequisite:** Current RN license, enrolled in the registered nursing program or instructor's permission.

NSG 2013 HEALTH ASSESSMENT 3-0-3

Provides learners with the opportunity to develop and practice health history taking and physical examination skills. History taking methodology, physical examination skills, health promotion techniques and clinical assessment tools are discussed. Age related assessment considerations and findings are reviewed. The learner will be able to perform a comprehensive medical history and physical assessment upon successful completion of this course. Spring only.

Prerequisite/Corequisite: Current RN license, enrolled in the registered nursing program or instructor's permission.

LPN TO RN PROGRAM

NSG 1505 FUNDAMENTAL NURSING THEORY 5-0-5

LPN to RN students enter this program with entry level nursing education. Knowledge of fundamentals of basic nursing, pharmacology, nutrition, medical-surgical, geriatric, legal and ethical issues, obstetrics, pediatrics, mental health, and delegation is expanded upon to encompass the role of the professional registered nurse. Upon successful completion of the spring semester, each student is awarded 5 credit hours for his/her practical nursing education.

NSG 1513 PRACTICUM FOR NURSING 0-9-3

LPN to RN students are expected to care for clients in the clinical setting using the skills acquired through his/her practical nursing program. These skills include concepts of basic nursing, pharmacology, and care of clients with various conditions. The spring semester builds upon beginning nursing skills by introducing tasks that require specialized nursing skill and judgments of a professional registered nurse. Upon successful completion of the spring semester, each student is awarded 3 credit hours for his/her practical nursing education.

NSG 2208 NURSING THEORY I 8-0-8

The attitudes, knowledge, skills and behaviors of the associate degree registered nurse are emphasized, thereby facilitating the initiation of role transition from the licensed practical nurse to the role of the associate degree registered nurse. Utilizing an integrated approach and building upon the foundation of fundamental nursing knowledge and skills, the curriculum subconcepts of critical thinking, therapeutic communication, therapeutic nursing interventions, community involvement, nursing process, teaching-learning principles, leadership/management and interdisciplinary healthcare standards are introduced. The curriculum subconcepts are interwoven throughout the course. Topics include but are not limited to the following areas: nursing process/critical thinking, developmental theories across the life span, role development, community nursing topics, communication process, skin integrity and wound healing, respiratory care, fluid and electrolytes and acid-base imbalances,

hematology, musculoskeletal trauma and disorders, normal obstetrical care and obstetric complications. **Corequisite:** NSG 2215 (Nursing Practicum I).

NSG 2214 NURSING PRACTICUM I 0-12-4

Clinical laboratory course focusing on the application of the knowledge, attitudes, skills and behaviors of the associate degree registered nurse that are identified in NSG 2208 (Nursing Theory I). The student will demonstrate the role of the associate degree registered nurse in caring for clients with uncomplicated health care problems in various health care settings; primary acute care; role development issues, community nursing topics and leadership/management concepts are included. **Corequisite:** NSG 2208 (Nursing Theory I).

NSG 2303 NURSING THEORY II 6-0-3

The student utilizes knowledge of the nursing process in caring for patients with a variety of unmet needs. Continuing with the integrated approach, the curriculum subconcepts of community resources, therapeutic communication, leadership/management, nursing process, professional standards, teaching-learning principles, therapeutic nursing interventions, critical thinking, and interdisciplinary health care are expanded. The curriculum subconcepts are interwoven throughout the course in which the nursing care of clients of all ages at varying phases of adaptation is discussed. The emphasis is on nursing care of the client(s) with psychosocial nursing problems. **Prerequisite:** NSG 2208 (Nursing Theory I). **Corequisite:** NSG 2314 Nursing Practicum II).

NSG 2313 NURSING PRACTICUM II 0-18-3

Clinical laboratory course focusing on the application of associate degree registered nurse knowledge, attitudes, skills, and behaviors that are identified in Nursing Theory II. The purpose of the clinical experience is to expand upon the role of Associate Degree Registered Nurse with emphasis on leadership and management. The student will care for clients with selected health care problems in various health care settings. **Prerequisite:** NSG 2215 (Nursing Practicum I). **Corequisite:** NSG 2303 (Nursing Theory II).

NSG 2408 NURSING THEORY III 8-0-8

This course continues to build upon the knowledge, attitudes, skills, and behaviors of the associate degree registered nurse. Continuing with the integrated approach, the curriculum subconcepts of critical thinking, communication processes, therapeutic nursing interventions, community involvement, nursing process, teaching-learning principles, leadership, and professional standards are developed. The curriculum subconcepts are interwoven throughout the course in which the nursing care of clients of all ages experiencing progressively more complex disorders are presented. Topics include but are not limited to: cardiovascular disorders, emergency nursing, neurological disorders, basic concepts of critical care nursing, immunology, oncology, endocrine disorders, GI hepatic disorders, genitourinary disorders, and high risk obstetrical situations and reproductive health. Corequisite is NSG 2415 & NSG 2501. Prerequisite is successful completion of NSG 2303.

NSG 2414 NURSING PRACTICUM III 0-12-4

This is a clinical laboratory course focusing upon the associate degree nurse's knowledge, attitudes, skills, and behaviors emphasized in Nursing Theory III. The student will demonstrate the role of the associate degree registered nurse in caring for clients with complicated health care problems in various health care settings. The last 90 hours focuses on a preceptorship arranged by each student.

Course Descriptions 135

The learner applies knowledge obtained in Nursing Theory I, II, and III to clients in the clinical practice. Corequisite is NSG 2408 & NSG 2501. Prerequisite is successful completion of NSG 2314.

NSG 2501 NURSING SEMINARS

1-0-1

This course is one-semester hour in which the history of nursing, as well as the present and future trends of nursing, is discussed. Topics include but are not limited to: legal and ethical issues, political issues, career management, scheduling, bioterrorism, and disaster planning. The role of the associate degree registered nurse is further expanded. Corequisite is NSG 2408 & NSG 2415. Prerequisite is successful completion of NSG 2208, 2215, 2303, & 2314.

PRACTICAL NURSING

NUR 1121 NURSING I

16-15-21

The knowledge, skills and behaviors of the practical nurse are introduced. The curriculum includes fundamentals of basic nursing, pharmacology, IV therapy, nutrition and care of the geriatric and medical-surgical patient. Vocational legal and ethical issues are also discussed. The clinical focus includes basic skills, caring for the geriatric patient and medical-surgical nursing.

NUR 1219 NURSING II

12-24-19

The curriculum includes a continuation of the study and care of adults with commonly occurring medical-surgical conditions, nutrition and concepts of pharmacology. Care of the obstetrical patient and pediatric nursing and mental health nursing are also discussed. The clinical focus includes caring for the medical-surgical patient, obstetrical patient and pediatric patient. **Prerequisites:** NUR 1121 (Nursing I).

NUR 1308 NURSING III

8-24-8

This course is a continuation of the study of adults with commonly occurring medical-surgical problems. Opportunities are provided to coordinate care for a small group of patients. Clinical component includes medical-surgical nursing, obstetrical and pediatric rotations as needed to fulfill the Arkansas State Board of Nursing requirements. Each student is required to complete a 96 hour preceptorship for this course. **Prerequisites:** NUR 1219 (Nursing II).

NURSING

NAH 2303 PHARMACOLOGY

3-0-3

This three credit hour course will examine how the body handles drugs and the effects of various classes of drugs on the body, including sites and mechanisms of action, therapeutic and side effect, and toxicology. The pharmacologic knowledge will prepare the learner to function in the changing health care environment. Successful and safe clinical practice is built on understanding the concepts and principles of pharmacology. The concepts of pharmacology will guide drug use in clinical practice. The approach is to relate the physiologic and pathophysiologic factors of disease processes to drug mechanisms and subsequent care. **Prerequisites:** BIOL 2003 and 2013 (Anatomy and Physiology I and II) or BIOL 1013 (Essentials of Anatomy and Physiology).

OFFICE ADMINISTRATION

OFA 1003 BEGINNING KEYBOARDING 3-0-3

Provides students who have no previous training in typing with Beginning Keyboarding. Content includes correct techniques of typing, drills to develop speed and accuracy, letter writing, manuscripts, and tabulation. Students may need to spend some time in lab outside of class.

OFA 1023 WORD PROCESSING/ADVANCED KEYBOARDING 3-0-3

Course content includes word processing procedures and terminology. Hands-on experience with methods of input, output, and editing using Microsoft word processing software and Windows technology. Students also strengthen their skills in production problems and increase speed and accuracy through drills. Students may need to spend some time in lab outside of class. Spring only. Prerequisite: OFA 1003 (Beginning Keyboarding).

OFA 1043 RECORDS MANAGEMENT 3-0-3

Emphasizes the importance of record management, storage, retention, transfer, and disposition. Application of standard rules of alphabetic, numeric and geographic filing. Fall only.

OFA 1053 MEDICAL TERMINOLOGY 3-0-3

Provides the student with the orientation of and application to medical terminology. Focuses on the basic structure of medical terms and their components, roots, prefixes, suffixes, and combining forms with emphasis on analyzing meaning, spelling, pronunciation. The student will build a medical vocabulary applicable to the specialties of all health care professions.

OFA 2003 MACHINE TRANSCRIPTION 3-0-3

Focuses on transcribing business documents including letters, memos, e-mail, agendas, itineraries and faxed messages. Letter styles, spelling, punctuation and other aspects of producing accurate documents are emphasized. Fall only. Prerequisite: OFA 1023 (Word Processing/Advanced Keyboarding).

OFA 2033 ADMINISTRATIVE OFFICE PROCEDURES 3-0-3

Emphasizes administrative practices and procedures used in today's business office by the professional administrative assistant. Topics include effective verbal and written communication, office technology, records and financial management, meetings and travel and the office environment. Spring only. Prerequisite: OFA 1003 (Beginning Keyboarding.)

OFA 2053 MEDICAL TRANSCRIPTION 3-0-3

Provides an introduction to the health care record and medical documents. This course also provides skills in transcription of basic medical dictation, incorporating English usage and machine transcription skills, medical knowledge, and proofreading and editing skills, and meeting progressively demanding accuracy and productivity standards. Fall only. Prerequisite: OFA 1053 (Medical Terminology), OFA 1023 (Word Processing/Advanced Keyboarding), and ENG 1103 (English Composition I).

PHYSICAL EDUCATION

PE 1003 CONCEPTS OF PHYSICAL ACTIVITY 1-2-3

Students gain knowledge and appreciation of the importance of physical activity for lifelong health, wellness, and quality life. Opportunities provided for psychomotor development.

PE 1013 PERSONAL AND COMMUNITY HEALTH

This course is a consideration of the various conditions and factors affecting individual and community health. The course is designed to assist student in formulating their philosophies, attitudes, and understanding of behaviors that are necessary to establish health living practices.

PHILOSOPHY

PHIL 1003 INTRODUCTION OF PHILOSOPHY 3-0-3

Explores basic questions in philosophy to increase our ability to think for ourselves and decide which answers to those questions we think are true and the most reasonable.

PHYSICAL SCIENCE

PHS 1001 PHYSICAL SCIENCE Lab 0-3-1

A laboratory experience to support PHS 1003 (Physical Science). Laboratory meets three hours per week. **Prerequisite:** Grade of C or better in MTH 0013 (Intermediate Algebra); or an Enhanced ACT math subscore of 19 or above; or an ASSET score of 43 or above in Intermediate Algebra. **Corequisite:** PHS 1003 (Physical Science).

PHS 1003 PHYSICAL SCIENCE 3-3-4

This course presents an overview of essential topics from astronomy, physics, electricity, chemistry, geology and meteorology. Features biographies of some of the important contributors to advances in the physical sciences. (The course does not satisfy science certification for secondary school teachers; it is not accepted as a major requirement in any natural science field.) Lecture meets three hours per week. **Prerequisite:** Grade of C or better in MTH 0013 (Intermediate Algebra); or an Enhanced ACT math subscore of 19 or above; or an ASSET score of 43 or above in Intermediate Algebra.

POLITICAL SCIENCE

POSC 2103 UNITED STATES GOVERNMENT 3-0-3

Introduces the Constitution, government, politics of the United States.

PSYCHOLOGY

PSY 1003 GENERAL PSYCHOLOGY 3-0-3

Provides a critical analysis of the basic principles of psychology. Students will encounter theories and research relating to motivation, learning, personality, emotion, stress, abnormal behavior, methods of therapy, biology, developmental psychology, and social psychology.

PSY 2013 HUMAN GROWTH AND DEVELOPMENT 3-0-3

Covers the physical, cognitive, and emotional growth and development of the individual from conception to death, including the examination of empirical findings and major psychological methods and theories.

PSY 2023 ABNORMAL PSYCHOLOGY 3-0-3

Introduces the study of abnormal behavior, including historical and present-day perspectives regarding abnormality. Other topics include the causal factors, symptoms, and treatments of various disorders. **Prerequisite:** PSY 1003 (General Psychology).

SOCIOLOGY

SOC 2003 PRINCIPLES OF SOCIOLOGY 3-0-3

Students gain an awareness of the relationship between individual experience and the wider society. This course promotes scientific examination of social institutions such as marriage, family, religion, education, health care, and political systems. Cultural assumptions regarding social stratification, gender, race, deviancy, and the environment are also discussed.

SOC 2013 SOCIAL PROBLEMS 3-0-3

Applies sociological concepts and methods to the analysis of current social problems in the United States, including family and community disorganization, delinquency and crime, mental illness, and intergroup relations.

SOC 2023 CULTURAL ANTHROPOLOGY 3-0-3

Introduces the concept of culture and cultural processes. Examines perceptions of race, gender, and ethnicity. Compares human adaptation across cultures and through time in terms of subsistence methods, social and political organization, economics, stratification, marriage and family structure, religion, kinship, and language.

SPANISH

SPAN 1003 SPANISH I 3-0-3

Basic skills in listening to, speaking, reading, and writing beginning Spanish.

SPAN 1013 SPANISH II 3-0-3

Further development of skills practiced in SPAN 1003. **Prerequisite:** SPAN 1003 (Spanish I) or permission of the instructor.

SPAN 1023 SPANISH FOR HEALTH CARE PROFESSIONALS 3-0-3

This course is designed to introduce the basic language skills of conversation and comprehension but with a medical emphasis to enable the health care professional and patient to communicate. **Prerequisite:** College level placement in Reading or the completion of PRE 0303 (Reading Improvement) with a C or better.

SPAN 2003 SPANISH III 3-0-3

Intermediate development of Spanish language skills. **Prerequisite:** SPAN 1013 (Spanish II) or permission of the instructor.

SPAN 2013 SPANISH IV **3-0-3**

Continuation of intermediate language skill development begun in SPAN 2003.

Prerequisite: SPAN 2003 (Spanish III) or permission of the instructor.

SPEECH

SPC 1003 ORAL COMMUNICATION

3-0-3

Students will develop skills in public speaking, interpersonal communication and group communication.

SPECIAL TOPICS

STP 290(1-9) SPECIAL TOPICS

Variable

Designation used for courses of current interest that are not included as a permanent part of our official course offerings. The title of the subject matter will be reflected on the student transcript. **Prerequisite:** Consent of instructor.

SURGICAL TECHNOLOGY

SUR 1003 ORIENTATION TO SURGICAL TECHNOLOGY

3-0-3

A fundamental study of surgery, including the history of surgery; the physical environment of the surgical suite; the organization and management of various types of health care facilities; interdepartmental relations; the surgical team; and the responsibilities of the surgical technologist.

SUR 1202 MICROBIOLOGY AND WOUND HEALING

2-0-2

A study of major divisions of pathogenic and non-pathogenic microorganisms, the process of infection, immunologic defense mechanisms, and principles of sanitation, sterilization, and disinfection.

SUR 1402 PATIENT CARE CONCEPTS

2-0-2

A study of skills necessary to meet the physical, physiologic, and spiritual needs of the surgical patient, including an overview of legal issues; standard pre-operative routines; surgical devices; the recording of vital signs; fluid replacement; emergency procedures; and documentation.

SUR 1503 ASEPSIS AND THE SURGICAL ENVIRONMENT

3-0-3

Emphasizes the standards used to prevent wound contamination during surgery. Primary emphasis is the development of a surgical conscience. Standard sterilization and disinfection principles and procedures are presented.

SUR 1602 CLINICAL I

0-21-2

An introduction to the preoperative/surgical environment in a health care facility. Supervision under the Clinical Instructor is required.

SUR 2002 PERSONAL AND PROFESSIONAL RELATIONSHIPS

2-0-2

Presents factors affecting individual and group relationships, the impact of professional organizations on surgical practices and government regulation of the delivery of health care. Job-seeking skills for entry-level positions are presented.

Prerequisites: SUR 1002 (Orientation to Surgical Technology), OFA 1052 (Medical Terminology), SUR 1202 (Microbiology and Wound Healing), SUR 1402 (Patient Care Concepts), SUR 1503 (Asepsis and the Surgical Environment), and SUR 1602 (Clinical I).

SUR 2103 PHARMACOLOGY

2-0-3

Emphasizes pharmacologic agents used in surgery, including the calculation of dosages, the preparation and handling of drugs and solutions, classifications of medications, and related care concepts and techniques for the surgical patient.

Prerequisite: SUR 1002 (Orientation to Surgical Technology), OFA 1052 (Medical Terminology), SUR 1202 (Microbiology and Wound Healing), SUR 1402 (Patient Care Concepts), SUR 1503 (Asepsis and the Surgical Environment), and SUR 1602 (Clinical I).

SUR 2202 BASIC CASE PREPARATION/PROCEDURES

3-0-2

A study of the creation and maintenance of a sterile field as well as an in-depth study of instruments, supplies, and equipment used during surgery.

Prerequisites: SUR 1002 (Orientation to Surgical Technology), OFA 1052 (Medical Terminology), SUR 1202 (Microbiology and Wound Healing), SUR 1402 (Patient Care Concepts), SUR 1503 (Asepsis and the Surgical Environment), and SUR 1602 (Clinical I).

SUR 2303 SURGICAL PROCEDURES

3-0-3

Students will develop knowledge of operative sequences in the opening and closing of specific surgical wounds. Includes diagnostic procedures, special pre- and intra-operative preparation, prognoses, post-operative care, and possible surgical complications related to all major types of surgical procedures.

Prerequisites: SUR 1002 (Orientation to Surgical Technology), OFA 1052 (Medical Terminology), SUR 1202 (Microbiology and Wound Healing), SUR 1402 (Patient Care Concepts), SUR 1503 (Asepsis and the Surgical Environment), and SUR 1602 (Clinical I).

SUR 2405 CLINICAL II

0-20-5

A continuation of SUR 1602 (Clinical I). **Prerequisites:** SUR 1002 (Orientation to Surgical Technology), OFA 1052 (Medical Terminology), SUR 1202 (Microbiology and Wound Healing), SUR 1402 (Patient Care Concepts), SUR 1503 (Asepsis and the Surgical Environment), SUR 1602 (Clinical I).

SUR 2503 CLINICAL INTERNSHIP

3-42-3

During the final five weeks of the program, students engage in clinical activities at an affiliate hospital under the supervision of an operating room supervisor and/or clinical instructor. This capstone course should be taken after all other coursework for certification is complete. **Prerequisites:** SUR 2002 (Personal and Professional Relationships), SUR 2103 (Pharmacology), SUR 2203 (Basic Care Preparation and Procedures), SUR 2303 (Surgical Procedures), and SUR 2405 (Clinical I).