

COURSE DESCRIPTIONS

The following is a list of all courses of instruction offered by the various departments at SUSLA at the time of this catalog's publication. Every effort is made to be as accurate and complete as possible. Courses are listed alphabetically by subject.

The first figure in parentheses following each course title indicates the lecture hours per week, the second figure indicates the number of laboratory hours the class meets per week in a regular semester, and the third indicates the semester credit hours for the course.

Course Prefix	Field Corresponding to Course Prefix	Course Prefix	Field Corresponding to Course Prefix
ACCT	Accounting	HOPR	Hospitality Operations
ALLH	Allied Health	HPRE	Health and Physical Education
AMTA	Aviation Maintenance Technology – Airframe	HUSR	Human Services
AMTG	Aviation Maintenance Technology – General	JOUR	Journalism
AMTP	Aviation Maintenance Technology – Powerplant	MASS	Mass Communication
BIOL	Biology	MATH	Mathematics
BUST	Business	MGMT	Business Management
CHEM	Chemistry	MILS	Military Science
CISC	Computer Information System	MLTC	Medical Laboratory
CJUS	Criminal Justice Administration	MUSC	Music
CMPS	Computer Science	MUTG	Music Technology
CNET	Computer Networking Technology	NURC	Nursing
COMM	Communication	NURS	Nursing
CWEB	Web Development	OSBT	Administrative Technology Specialist
		PHLE	Phlebotomy
DHYG	Dental Hygiene	PHYS	Physics
DYLT	Dialysis Technician	POLI	Political Science
ECON	Economics	PSGT	Polysomnographic Technology
EDUC	Education	PSYC	Psychology
EMTB	Emergency Medical Technician – Basic	RADT	Radiologic Technology
ENGL	English	READ	Reading
ENGR	Engineering Technology	RESP	Respiratory Therapy
FIAR	Fine Arts	SLGE	Service Learning
FREN	French	SOCL	Sociology
FROR	Freshman Studies	SPAN	Spanish
FSMC	Fire Service Management	SPCH	Speech
HCAA	Healthcare Access Associate	SPLP	Speech Language Pathology
HIST	History	SPDT	Sterile Processing Technician
HITG	Health Information Technology	SURG	Surgical Technology

ACCOUNTING (ACCT)

ACCT 160 INTRODUCTION TO ACCOUNTING - A survey course of the bookkeeping and accounting process. This course places emphasis on gathering, analyzing, classifying and reporting financial data. **(3-0-3)**

ACCT 202 FINANCIAL ACCOUNTING - The principles of accounting, theory of debits and credits, financial statement analysis, and financial statement preparation will be studied. **(3-0-3)**

ACCT 203 MANAGERIAL ACCOUNTING - The preparation of financial statements and their analysis using external and internal financial data with a focus on partnerships and corporations will be studied in this course. This course also covers the use of financial data in managerial decision-making. **Prerequisite: ACCT 200. (3-0-3)**

ACCT 220 COMPUTERIZED ACCOUNTING - This course applies the elements of accounting principles and methods in a computerized environment. This course emphasizes the use of professional accounting software packages such as: Peachtree and Quick Books. The students will apply the complete accounting cycle in a computer environment. Students are required to complete projects in: Merchandising, Job Costing, Payroll, and Service Accounting. **Prerequisite: ACCT 200. (3-0-3)**

ACCT 250 INTERMEDIATE ACCOUNTING - This course includes advanced training in the preparation and interpretation of financial statements with individual analysis of their various components. **(3-0-3)**

ACCT 255 MANAGERIAL ACCOUNTING - This course provides a survey of managerial accounting theory and the application of those principles. It covers the relationship between managerial and financial accounting. The student will learn about the organizational role of management accountants in the management process. The course will cover the basic cost terms and applies them within a job order and a process cost system, cost volume analysis, budgeting, performance evaluation, pricing, and capital investment analysis will also be addressed. **Prerequisite: ACCT 201. (3-0-3)**

ACCT 262 TAX ACCOUNTING - This is a survey course that includes the elements of the federal and state tax structure, existing tax laws and preparation of tax returns for individuals, partnerships and corporations. **(3-0-3)**

ALLIED HEALTH (ALLH)

ALLH 112 PATHOLOGY I

The course introduces the student to the study of disease, tumors, fluid and hemodynamic disorders, pathology of the body systems with emphasis on surgically treatable diseases, and disorders of all body systems. **(2-1-3)**

ALLH 120 FUNDAMENTAL SCIENCE REVIEW

The student begins to prepare for the National Certification exam through a systematic review of a series of science topics required in the surgical technology curriculum. The student works both independently and in a supervised setting. **(2-1-3)**

ALLH 124 PERIOPERATIVE PHARMACOLOGY AND ANESTHESIA - This course is designed to introduce the learner to the principles of anesthesia, and anesthesia preparation of the patient, methods, agents and techniques of anesthesia administration and preparation, anesthesia monitoring devices and patient hemostasis, anesthesia complications, medication calculation, conversions and dosages, application of general terminology to medication use, preparation and management of medications and solutions including the use of medication in the care of the surgical patient, emergency patient situations in the perioperative area. The student learns basic patient monitoring and becomes CPR certified **(2-1-3)**

ALLH 210 MEDICAL TERMINOLOGY I - A study of the terminology used in all areas of the health sciences. Emphasis is placed on basic medical word construction and understanding of the various word parts as they relate to the human body. **(3-0-3)**

AVIATION MAINTENANCE TECHNOLOGY - AIRFRAME (AMTA)

AMTA 201 WOOD, COVERINGS, AND FINISHES - A study of classic airframe structures will provide the theory and application of the older airframe construction and repair techniques. Wood structures, fabric coverings and painting are the main topics covered in this course. **(1.5-1.5-2)**

AMTA 202 AIRCRAFT SHEETMETAL, NON-METALLIC STRUCTURES - A study of aircraft structural characteristics and methods of fabrication and repairs as it applies to aircraft aluminum structures. Repairing of aluminum skin is emphasized. **(1-2-4)**

AMTA 203 AIRCRAFT WELDING - This course provides the theory and application of the different welding processes used for repairing of aircraft. Emphasis is placed on the welding of structural members of the aircraft. **(1.5-1.5-1)**

AMTA 205 AIRFRAME INSPECTION - Airframe inspection will provide the theory and practical application of the inspections required for both general and commercial aviation type aircraft. **(1.5-1.5-1)**

AMTA 206 ASSEMBLY AND RIGGING - A course of study on the methods and procedures used in the assembly and rigging of aircraft for the most efficient flight. **(1.5-1.5-3)**

AMTA 207 AIRCRAFT FUEL SYSTEMS - This course of study is directed toward various fuel storage and distribution systems used in small and large aircraft and the standard practices for the maintenance of these systems. **(1.5-1.5-1)**

AMTA 208 HYDRAULIC AND PNEUMATIC POWER SYSTEMS - The study of the operation and maintenance of aircraft hydraulic and pneumatic systems in both small and large aircraft. The method of troubleshooting and repair of components are covered as well as servicing and ground testing. The course also includes the study of powered flight control systems. **(1-2-3)**

AMTA 209 AIRCRAFT LANDING GEAR SYSTEMS - The study of aircraft landing gear structures and operational systems include the repair and maintenance procedures for the retraction systems, brakes, shock struts, steering systems, wheel, tires, and anti-skid systems. **(2-1-2)**

AMTA 210 CABIN ATMOSPHERE CONTROL SYSTEMS - A study of the various types of systems used for cabin atmospheric control in corporate and airline type aircraft. Heating, cooling, and pressurization as well as oxygen systems are included in the study. **(2-1-1)**

AMTA 211 AIRCRAFT ELECTRICAL SYSTEMS - A course of study of the theory of operation and maintenance of the DC and AC power generating and distribution systems. **(1.5-1.5-3)**

AMTA 212 AIRCRAFT POSITION AND WARNING SYSTEMS - A study of the theory of operation and the maintenance of various position and warning systems used on small and large aircraft. Fire protection systems are included. **(1.5-1.5-2)**

AMTA 213 AIRCRAFT COMMUNICATION, NAVIGATION SYSTEMS AND INSTRUMENTS - This course familiarizes the student with the communication, navigation, and instrument systems and their function. Emphasis is placed on the proper removal and installation procedures. **(2-1-2)**

AVIATION MAINTENANCE TECHNOLOGY - GENERAL (AMTG)

AMTG 101 BASIC ELECTRICITY - A study of basic electrical theory for both AC and DC current and its application to aircraft systems. Understanding voltage, current, and resistance relationships, reading and interpreting electrical schematics, and developing a methodical approach to electrical problem solving are included. Introduction to solid state and digital devices in aircraft systems and projects to give the aircraft technician hands-on experience will also be included. **(2-1-3)**

AMTG 102 AVIATION REGULATIONS, RECORDS, AND DOCUMENTS - A presentation of Federal Aviation Regulations pertinent to aircraft maintenance and the associated documents, publications and records applicable to aircraft maintenance and the technician. **(3-0-1)**

AMTG 104 FLUID, LINES, AND FITTINGS - A study that will include the identification of aircraft plumbing, its repairs, and the methods and processes used for fabricating rigid and flexible lines. **(1.5-1.5-1)**

AMTG 105 MATERIALS AND PROCESSES - An introduction to the materials and processes used in aircraft maintenance and repair. Various methods of non-destructive testing and control of corrosion are studied and performed. **(1.5-1.5-3)**

AMTG 106 GROUND OPERATIONS AND SERVICING - A course of standards for aircraft ground movement and operations and associated safety practices. A study of aircraft weight and balance as it applies to the maintenance technician is included. **(1.5-1.5-3)**

AMTG 108 AIRCRAFT DRAWINGS - A study of aircraft working drawings, schematics, diagrams, and the meaning of lines and symbols; as well as blueprint reading. **(2-1-1)**

AVIATION MAINTENANCE TECHNOLOGY - POWERPLANT (AMTP)

AMTP 222 TURBINE ENGINES - A study of the theory of operation of the turbine engine and the function of engine components. Overhaul and testing procedures are covered including disassembly, inspection, repair, reassembly and operational tests of the engines and accessories. **(1.5-1.5-3)**

AMTP 223 ENGINE INSPECTION - Engine inspection will provide the theory and application of the inspections required for both general and commercial aviation engines. **(1.5-1.5-1)**

AMTP 224 ENGINE INSTRUMENTS AND FIRE PROTECTION SYSTEMS - A study of the theory of operation, installation and troubleshooting of the engine instruments and fire protection systems. **(1.5-1.5-1)**

AMTP 225 ENGINE LUBRICATION SYSTEMS - This course covers the different types of lubrication systems used in the reciprocating and turbine engines. The study also provides the procedures to use in repairing and servicing of these systems. **(1.5-1.5-1)**

AMTP 226 IGNITION AND STARTING SYSTEMS - This course of study includes the theory of operation, inspection and repairing of ignition and starting systems for both large and small aircraft. **(1.5-1.5-3)**

AMTP 227 ENGINE FUEL AND METERING SYSTEMS - This course covers all the related components of the fuel distribution from the airframe to the fuel metering units which includes the filters, pumps, fuel heating systems and controls. This course places emphasis on theory of operation and application for carburetors and fuel controls. In inspection, troubleshooting and repair procedures of these fuel metering units are covered. **(1.5-1.5-3)**

AMTP 228 INDUCTION, COOLING AND EXHAUST SYSTEMS - The types and characteristics of induction, cooling and exhaust systems are compared and evaluated. Standard maintenance practices are covered. **(1.5-1.5-2)**

AMTP 229 PROPELLERS AND COMPONENTS- This course covers the theory, installation, inspection, servicing, maintenance, repair, and the principles of operation of fixed and controllable pitch propellers and related systems. This course also includes the study of propeller de-icing, synchronization, and the selection and use of propeller lubricants for reciprocating and turbo propeller engines. **(1.5-1.5-3)**

AMTP 231 Engine Electrical Systems - This course offers a study of various electrical systems used in support of aircraft engines. The inspection, repair and maintenance procedures are also covered. **(1.5-1.5-2)**

AMTP 250 RECIPROCATING ENGINE OVERHAUL & INSTALLATION - This course contains a detailed study supported by the actual disassembly, inspection and repairing of an operational engine; followed by the reassembly and the operational testing of the engine. This course also includes the methods and procedures for engine removal and installation. **(1.5-1.5-4)**

BIOLOGY (BIOL)

BIOL 104 GENERAL BIOLOGY LECTURE - *[LCCN: CBIO 1013, General Biology I]* Broad biological principles for science majors: scientific method, biological molecules, cell structure and function, genetics and evolution. **(3-0-3)**

BIOL 104L GENERAL BIOLOGY LABORATORY - *[LCCN: CBIO 1011, General Biology I Lab]* Laboratory designed to supplement General Biology I for science majors. **(0-2-1)**

BIOL 105 GENERAL BIOLOGY LECTURE - [LCCN: CBIO 1043, General Biology II] General concepts and principles of ecology, evolution, and biological diversity, including anatomy and physiology. *Prerequisite:* BIOL 104. (3-0-3)

BIOL 105L GENERAL BIOLOGY LABORATORY - [LCCN: CBIO 1021, General Biology II Lab] Laboratory designed to supplement General Biology II for science majors. *Prerequisite:* Biology 104L. (0-2-1)

BIOL 200 GENERAL MICROBIOLOGY LECTURE - [LCCN: CBIO 2123, General Microbiology] Microbial diversity; structure and function; interaction with hosts and environments. (3-0-3)

BIOL 200L GENERAL MICROBIOLOGY LABORATORY - [LCCN: CBIO 2121, General Microbiology] Laboratory designed to supplement General Microbiology for science majors. (0-2-1)

BIOL 215 INTRODUCTION TO NUTRITION – Principles of human nutrition in relation to health and physical and mental fitness, dieting requirements and longevity are studied. (3-0-3)

BIOL 220 HUMAN ANATOMY AND PHYSIOLOGY LECTURE I - [LCCN: CBIO 2213, Human Anatomy and Physiology I] Cells, tissues, integumentary, skeletal, muscular, and the nervous systems. (3-0-3)

BIOL 220L HUMAN ANATOMY AND PHYSIOLOGY LABORATORY I - [LCCN: CBIO 2211, Human Anatomy and Physiology I Lab] Laboratory is designed to supplement Human Anatomy and Physiology I lecture. (0-2-1)

BIOL 222 HUMAN ANATOMY & PHYSIOLOGY LECTURE II - [LCCN: CBIO 2223, Human Anatomy and Physiology II] Endocrine, circulatory, respiratory, lymphatic, digestive, excretory, and reproductive systems. *Prerequisite:* BIOL 220. (3-0-3)

BIOL 222L ANATOMY & PHYSIOLOGY LABORATORY II - [LCCN: CBIO 2221, Human Anatomy and Physiology II Lab] Laboratory designed to supplement Human Anatomy and Physiology II lecture. *Prerequisite:* BIOL 220L. (3-0-3)

BIOL 235 PARASITOLOGY - A course involving the collection, staining techniques, basic morphology, life histories, classification, distribution, and identification of common parasites of man and other vertebrates. *Prerequisite:* BIOL 104. (3-2-4)

BIOL 235L PARASITOLOGY LABORATORY - The laboratory study is designed to teach students the basic identification of common parasites and consideration of the biology, morphology, pathogenesis, and treatment of parasite diseases. (0-2-1)

BIOL 264 CELL AND MOLECULAR BIOLOGY - [LCCN: CBIO 2134, CELL BIOLOGY LECTURE + LAB] Structure and function of cells, and molecules essential for cellular processes are covered. The course material is presented in a combined lecture and laboratory format. *Prerequisites:* BIOL 104 and CHEM 130. (3-0-3)

BIOL 264L CELL AND MOLECULAR BIOLOGY LABORATORY - This laboratory course provides students an opportunity to apply technical skills in the laboratory with an emphasis on cell biological techniques (cell and tissue, staining, cell biology quantitation, basic microscopy) which will reinforce the principles (introduced in lecture) that can be utilized for multidimensional approach to investigate cellular and molecular biological processes. This course is taken concurrently with BIOL 264 Cellular and Molecular Biology lecture course. **Prerequisites: BIOL 104 and BIOL 104L; CHEM 130 and CHEM 130L. (0-2-1)**

BUSINESS (BUST)

BUST 250 CUSTOMER SERVICE - Systematic process for building service skills that all business people need. Students will learn how to interact with customers (communicating in person) resolve conflicts, maintain records, understand the importance of customer satisfaction/retention, actively participate as a member of a team, and develop time management skills. **(3-0-3)**

BUST 299 BUSINESS INTERNSHIP - This course is designed to provide students with opportunities to enhance their undergraduate learning experience in a work environment, apply knowledge gained in the classroom to an actual worksite and investigate and prepare for career opportunities and professional networking. ACCT 299, MGMT 299, and HOPR 299 were replaced by this course. **Prerequisite: This course can only be taken during the student's sophomore year and with consent from the internship coordinator or recommendation from the department head. (1-9-3)**

CHEMISTRY (CHEM)

CHEM 130 GENERAL CHEMISTRY LECTURE - [LCCN: CCEM 1103, CHEMISTRY I (NON-SCIENCE MAJORS)] An introduction to nomenclature; atomic structure; chemical equations and stoichiometry; gas laws; bonding; quantitative problem solving; energy relationships, and solutions. **(3-0-3)**

CHEM 130L GENERAL CHEMISTRY LABORATORY - [LCCN: CCEM 1101, CHEMISTRY I LAB (Non-Science Majors)] Safety; basic laboratory techniques (to include data collection and interpretation; introduction to laboratory reporting/record keeping) related to the topics in Chemistry I. **(0-2-1)**

CHEM 131 GENERAL CHEMISTRY LECTURE II - [LCCN: CCEM 1113, CHEMISTRY II (Non-Science Majors)] An introduction to special topics in chemistry, which may include basic organic and biochemistry, acid/base, and others. Topics may vary. **Prerequisite: Chemistry 130, Chemistry 130L. (3-0-3)**

CHEM 131L GENERAL CHEMISTRY LABORATORY II - [LCCN: CCEM 1111, CHEMISTRY II LAB (Non-Science Majors)] Safety; basic laboratory techniques related to the topics in Chemistry II. **Prerequisite: Chemistry 130L. (0-2-1)**

CHEM 132 GENERAL CHEMISTRY LECTURE I - [LCCN: CCEM 1123, CHEMISTRY I (Science Majors)] Nomenclature, atomic and molecular structure, chemical equations and stoichiometry, gas laws, bonding, quantitative problem solving, introduction to periodicity, energy relationships and solutions. **(3-0-3)**

CHEM 132L GENERAL CHEMISTRY LABORATORY I - [LCCN: CCEM 1121, CHEMISTRY I LAB (Science Majors)] Safety, basic laboratory techniques (to include data collection and interpretation, introduction to laboratory reporting/record keeping) related to the topics in Chemistry I for science majors. (0-2-1)

CHEM 133 INORGANIC AND EQUILIBRIUM CHEMISTRY LECTURE II - [LCCN: CCEM 1133, CHEMISTRY II (Science Majors)] Intermolecular forces; thermodynamics; general and heterogeneous equilibrium; kinetics; solutions; acid/base equilibrium and properties and electrochemistry. (3-0-3)

CHEM 133L INORGANIC AND EQUILIBRIUM CHEMISTRY LABORATORY - Focuses on the synthesis and physical characterization of inorganic compounds; spectroscopy and other synthetic procedures are emphasized in this laboratory. This course is taken concurrently with CHEM 133 Inorganic and Equilibrium Chemistry lecture course. **Prerequisites: CHEM 132 and CHEM 132L (0-2-1)**

CHEM 230 ORGANIC CHEMISTRY I LECTURE-[LCCN:CCEM 2213, ORGANIC CHEMISTRY I] Nomenclature, chemical reactions, synthesis, functional groups, structure/property relationships, stereochemistry, spectroscopy, and mechanistic theory are covered. (Pre-professional; Science Majors) **Prerequisites: Chemistry 130, 131, Lab., 131L. (3-0-3)**

CHEM 230L ORGANIC CHEMISTRY I LABORATORY - [LCCN: CCEM 2211, ORGANIC CHEMISTRY I] Safety, basic laboratory techniques, related to the topics in Organic Chemistry I. **Prerequisites: Chemistry 130L and 131L. (0-2-1)**

CHEM 231 ORGANIC CHEMISTRY II LECTURE - [LCCN: CCEM 2223, Organic Chemistry II] This course is a continuation of topics in Organic Chemistry I. **Prerequisite: Chemistry 230. (3-0-3)**

CHEM 231L ORGANIC CHEMISTRY II LABORATORY - [LCCN: CCEM 2221, ORGANIC CHEMISTRY II] Safety; basic laboratory techniques related to the topics in Organic Chemistry II. **Prerequisite: Chemistry 230L. (0-2-1)**

CHEM 251 INORGANIC, ORGANIC AND BIOCHEMISTRY - [LCCN: CCEM 1003, General, Organic & Biochemistry] A survey of general, organic, and bio-chemistry; primarily for Nursing and Allied Health. **Prerequisites: CHEM 130. (3-0-3)**

CHEM 251L INORGANIC, ORGANIC AND BIOCHEMISTRY LAB - This course covers inorganic, organic and biochemistry experiments. Topics include solubility, extraction, reactivity and electrophoresis. **Prerequisite: CHEM 130L. (0-2-1)**

COMPUTER INFORMATION SYSTEM (CISC)

CISC 140 COMPUTER BASED INFORMATION SYSTEMS APPLICATIONS - Experience hands-on applications of advanced levels of productivity software, this course focuses on multimedia peripherals for micro-computers, along with other computer components. Advanced micro-computer application software problems and exercises are discussed. (3-0-3)

CISC 150 SPREADSHEET APPLICATIONS - This course is designed to provide a comprehensive presentation of Microsoft Excel. In this course, the student will experience advanced techniques of spreadsheet design. Hands-on learning is emphasized. Some course topics include: using formulas, data manipulation, formatting worksheets, charting techniques, understanding functions, what-if-analysis, internet data utilization, and database functions. **(3-0-3)**

CISC 160 WORD PROCESSING APPLICATIONS - The focus of this course is on Microsoft Word. The student will experience advanced techniques of document development. Hands-on learning is emphasized. Some course topics include creating and saving a document in multiple folders, document editing and formatting, saving documents as web pages, inserting charts and graphs, document merging, and basic desktop publishing techniques. **(3-0-3)**

CISC 170 PRESENTATION APPLICATIONS - Experience hands-on applications of advanced levels of Microsoft PowerPoint. Some course topics included creating a presentation using a design template, creating a presentation on the web, using customized sounds in a presentation: such as voice and downloading internet clipart galleries. Additionally, students will learn how to ungroup and group a clip, automated slide transitions and animation. **(3-0-3)**

CISC 199 TOPICS IN COMPUTER INFORMATION SYSTEMS - The topics that may be included tend to focus on new developments in business computing areas. Topics may include but are not limited to Windows 98 vs. Windows XP, PC Maintenance, PC File Management, Windows Explore and Surfing the Net, Web Page building. Not more than three (3) credits may be applied for computer information systems majors. **(3-0-3)**

CISC 210 INFORMATION SYSTEMS - In this course, the theoretical foundation and evolution of information systems are discussed. Computer-based information systems are analyzed along with developing a business model using the systems approach (Systems Development Life Cycle). Ethical implications of information technologies are discussed. **(3-0-3)**

CISC 240 DATABASE APPLICATIONS - The focus of this course is Microsoft Access. Course topics include creating, querying, and maintaining a database, creating a data access page, reports, forms, sub forms, creating a report using design view, importing and exporting data, working with charts and table-objects, SQL and Access data in other applications. **(3-0-3)**

CRIMINAL JUSTICE ADMINISTRATION (CJUS)

CJUS 101 INTRODUCTION TO CRIMINAL JUSTICE - Basic introduction to crime, law, and justice; a discussion of the criminal law and its relationship to criminal justice, an overview of the law-enforcement field, adjudication process, the correctional system, and juvenile justice system will be studied. **(3-0-3)**

CJUS 200 POLICE ADMINISTRATION - An introductory course in the role of police administration of criminal justice and crime control. The course will provide an overview of police administration, line and auxiliary functions. **(3-0-3)**

CJUS 201 RULES OF CRIMINAL EVIDENCE AND PROCEDURES - An examination of the Federal and Louisiana criminal procedural laws affecting arrest, search and seizure, trial and post-conviction remedies. **(3-0-3)**

CJUS 204 CRIMINOLOGY -A course that provides students with an understanding of how theory and application relate to one another, examinations and explanations of crime and criminal behavior; present various new sociological perspectives on crime causation. **(3-0-3)**

CJUS 205 LOUISIANA CRIMINAL LAW - The criminal statutory provisions in the State of Louisiana will be studied. The study also includes interpretation of the statutory criminal law as set forth by the State and U.S. Supreme Court. **(3-0-3)**

CJUS 221 JUDICIAL PROCESS - A study of the structure, organization and administration of federal and state court systems; with special attention to the criminal courts. The basic functions of the courts will be examined. **(3-0-3)**

CJUS 230 SPECIAL PROBLEMS IN LAW ENFORCEMENT - In-depth individual study of a current problem or topic in law enforcement which is not addressed in other courses will be done. Under faculty supervision, the students select appropriate topics, study and prepare extensive written reports for submission to the supervising faculty member. **(3-0-3)**

CJUS 231 CORRECTIONAL SYSTEMS - Changes in America correctional philosophy, administration and techniques, including the shift from institutional incarceration to community-based correctional programs. **(3-0-3)**

CJUS 261 PRINCIPLES OF SUPERVISION - The art of working with people is studied. The course illustrates how supervision relates to basic managerial functions, and contributes to the attainment of business objectives. **(3-0-3)**

CJUS 298 CRIMINAL JUSTICE PRACTICUM - Research and field work, under staff supervision, at selected sites. Students must complete one hundred thirty-four (134) hours for completion of the class. **(3-0-3)**

COMPUTER SCIENCE (CMPS)

CMPS 101 INTRODUCTION TO COMPUTER CONCEPTS - This course is an introduction to computer concepts and their applications. Topics include organization of a computer system, computer terminology, input/output devices and media, software development, future trends, and the impacts of the changes. Some hands-on laboratory experience is provided using software packages such as word processing, spreadsheets, presentation, and database. **(3-0-3)**

CMPS 140 STRUCTURED PROGRAMMING - This course is designed to introduce students to problem solving, structured design of algorithms, implementation of algorithms in a programming language, testing and debugging programs, and documenting programs using techniques of good programming style. Data types, control structures, and subroutines will also be covered. **(3-0-3)**

CMPS 160 FORTRAN - This course is an introduction to FORTRAN language. Programming assignments involve applications appropriate for students in the sciences, mathematics, and engineering. **Prerequisite:** CMPS 140. **(3-0-3)**

CMPS 190 COBOL - This programming course is designed for students interested in applications of computer techniques in solving simple business data processing problems using structures program design. Programs will emphasize nested IF statements, control break, tables, and sequential files, which will be written, compiled, and executed by each student. *Prerequisite: CMPS 140. (3-0-3)*

CMPS 199 TOPICS IN COMPUTER SCIENCE - This course is taken at the consent of the department. Topics to be announced by the computer science department will vary from semester to semester. Topic focus in this course will change as topic feasibility, student demand and instructor availability allow. Topics that may be included tend to focus on new developments in applied computing areas. Topics may include but are not limited to networking, upgrading and maintaining PCs, operating systems, troubleshooting techniques (hardware/software), diagnosis and repair problems, and guide to the Internet. Not more than three (3) credits may be applied for computer science majors. **(3-0-3)**

CMPS 200 DISCRETE MATHEMATICS - This course introduces the concepts of finite systems and mathematical logic. Topics include: set theory, relations and functions, counting techniques, graph theory and Boolean algebra. *Prerequisite: MATH 135. (3-0-3)*

CMPS 215 BUSINESS APPLICATIONS - This course provides an in depth knowledge base for Microsoft Word, Excel, PowerPoint, and Access. Microsoft Word topics include creating, saving, and printing documents, and saving documents as Web pages. Microsoft PowerPoint would entail using various galleries that are part of the software, downloaded via Internet, or customized. PowerPoint topics include creating, saving, adding, printing the presentation slides, creating graphical announcements, developing an Internet presentation, and inserting charts and tables. Excel topics include formulas, functions, charting, formatting worksheets, absolute cell references, working with large worksheets, what-if analysis, using Excel to create static and dynamic web pages. Some access topics to be discussed will include database definitions, files, records, fields, storage, and retrieval. Projects may vary according to instructor choice and student needs. **(3-0-3)**

CMPS 225 BUSINESS APPLICATION - This course is designed to help students prepare to receive a Microsoft Certification in Microsoft Word, Power Point, and Excel. Projects may vary according to instructor choice and student needs. This course is a hands-on application course designed to expose students to how to use these Microsoft applications while introducing how these applications are used in the business arena. Additionally, upon completion of the course, the student will be prepared to be tested and obtain a Microsoft Specialist Certification, through Microsoft CertiPort, in one or all of the Microsoft applications taught. **(3-0-3)**

CMPS 240 DATA STRUCTURES - This course is an introduction to the fundamental data structures and their applications. These structures include arrays, stacks, queues, linked lists, and trees. Also studied are techniques for sorting and searching. *Prerequisite: CMPS 230. (3-0-3)*

CMPS 290 SYSTEM ANALYSIS AND DESIGN - This course is an introduction to analysis, design documentation, implementation, and evaluation of computer systems. Techniques of data gathering, systems flowcharting, file organization, and accessing methods are studied and case studies are presented. *Prerequisites: CMPS 215 and CMPS 230. (3-0-3)*

CMPS 293 INTRODUCTION TO PROGRAMMING IN C++ - A survey of the problem solving techniques, strategies and mechanisms available in the C++ language. Topics include arithmetic operations, basic input and output, functions, control flow mechanisms, arrays, pointers, strings, and structures. *Prerequisite:* CMPS 160 or CMPS 230. (3-0-3)

CMPS 294 INTRODUCTION TO C LANGUAGE- This course will focus upon scientific and commercial applications programming in C language. Topics include: pre and post fix logical and arithmetic operation, primitive data types, arrays, pointers, linked lists, unions, procedures, and standard I/O functions and libraries. *Prerequisite:* CMPS 160 or CMPS 230. (3-0-3)

CMPS 295 SEMINAR IN COMPUTER SCIENCE - This course is to be used in lieu of CMPS 299. It is designed for students desiring to complete a term project of significance. This course will be a synthesis course, integrating many concepts taught in the curriculum. Students will be graded on the basis of oral and written presentation dealing with analysis and design as well as the quality of the project. (3-0-3)

CMPS 296 OBJECT-ORIENTED PROGRAMMING USING JAVA - The study of object-oriented programming principles and their implementation in the JAVA programming language. Topics may include: classes, methods, packages, class hierarchies, sequence, selection, iteration, arrays, records, and files. *Prerequisite:* CMPS 160 or CMPS 230. (3-0-3)

CMPS 299 INTERNSHIP - An opportunity for students majoring in computer science to apply knowledge and techniques learned in the classroom to an actual job experience. Classroom instruction must precede the job experience. *Prerequisites:* Sophomore classification and approval of advisor. (0-12-3)

COMPUTER NETWORKING TECHNOLOGY (CNET)

CNET 180 CCNA 1: CISCO NETWORKING BASICS – An introduction to the basics of networking including network terminology, local area networks (LAN), and wide area networks (WAN). Topics include network protocols such as TCP/IP, Open System Interconnection (OSI) models, cabling and routers. Introductory coverage of the fundamental principles of fiber optic cables and networks is included along with the usage of applicable hand tools. Fire and personal safety are also discussed. **Lab required (4-0-4)**

CNET 185 CCNA 2: ROUTER AND ROUTING BASIC – An introduction to basic Cisco router configuration for local area networks. Topics include initial router configuration for TCP/IP, management of Cisco IOS and router configuration files, routing protocols, and access control lists. An introduction to Giga-bit Ethernet and IPv6 is covered along with network monitoring concepts and the utilization of tools such as the network analyzer. **Lab required (4-0-4)**

CNET 191 CCNA PRACTICUM/COOPERATIVE EDUCATION – A work-based instruction that provides basic or intermediate career exploration, which helps students gain practical experience in the discipline, enhance skills, and integrate knowledge under the supervision of the college and the employer. A practicum may be a paid or unpaid learning experience, and includes a lecture component. Requires departmental approval. (3-0-3)

CNET 211 CCNA 3: SWITCHING BASICS AND INTERMEDIATE ROUTING – A course focusing on advanced topics including IP addressing techniques, intermediate routing protocols, CL1 configuration of switches, Ethernet switching, VLANs, Spanning Tree Protocol, and VLAN Trunking Protocol. Documentation requirement and techniques are discussed as well as troubleshooting within a multiprotocol networking environment. **Lab required.** Prerequisite: CNET 185 (4-0-4)

CNET 216 CCNA 4: WAN TECHNOLOGIES – This course focuses on advanced IP addressing techniques, Network Address Translation (NAT), Port Address Translation (PAT), and (DHP), WAN technology and terminology, PPP, ISDN, DDR, Frame Relay, Network Management and Introduction to Optical Networking. In addition, the student will prepare for the CCNA exam. Security concepts including firewalls and encryption are considered, and detailed emphasis on the application of voice, data, and video convergence concepts are covered in this course. **Lab required (4-0-4)**

CNET 220 CCNA CERTIFICATION REVIEW – Review of subjects commonly found on network engineering certification exams such as the Cisco Certified Network Associates (CCNA) ratings. (3-0-3)

CNET 226 CCNA PRACTICUM/COOPERATIVE EDUCATION – Professional career-related activities encountered in the area of specialization offered through an individual agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. A practicum may be a paid or unpaid learning experience, and may include a lecture component. **Requires departmental approval (3-0-3)**

COMMUNICATION (COMM)

COMM 200 INTERPERSONAL COMMUNICATION – This course focuses on the practical application of communication concepts and skills. Emphasis is on self-concept, language, perception, listening, non-verbal communication, gender and culture. (3-0-3)

COMM 210 FUNDAMENTALS OF SPEECH - Students will be given an orientation to the functions, principles and types of effective speech with emphasis on the use of speech arts in business, social and professional situations. (3-0-3)

COMM 215 PUBLIC SPEAKING - This is a basic course in the theory and practice of public speaking. It stresses organization of speech content, personality, components of effective delivery, and use of voice, body and language. (3-0-3)

WEB DEVELOPMENT (CWEB)

CWEB 110 INTRODUCTION TO WEB PAGE DESIGN-HTML - This course is designed to introduce some web design fundamentals and the language used for the internet. Students will learn and understand the hypertext markup language (HTML); which is the programming language used to develop web pages. As part of the learning experiences, students will be required to develop some online documents with multiple links, will learn to implement basic colors, graphics, and sound into web pages, and will learn document and image formatting. (3-0-3)

CWEB 120 INTERNET TECHNOLOGY- With the internet being a technology trend that cannot be escaped, it is important that students acquire the skills and confidence needed to navigate on the internet. This course will provide a foundation for students to learn how to access the internet along with the World Wide Web (www). Students will learn how to use the www to find information (surf the net), do research using the internet, communicate with others electronically, take part in e-commerce, understand internet design, software, services, access providers, and more. **(3-0-3)**

CWEB 130 MULTIMEDIA LITERACY - The primary focus of this course is to provide both a conceptual and a practical introduction to multimedia. Multimedia is a fairly new trend that is very appealing in education and business. Southern University at Shreveport, Louisiana's 160 Students will learn what impact multimedia is having in our daily lives, why multimedia became a multibillion-dollar industry, how to use multimedia effectively, and how to create their own multimedia application and publish them on the web. **(3-0-3)**

CWEB 140 INTRODUCTION TO E-COMMERCE - This course examines the practical considerations of developing and maintaining an e-commerce business. Students will be introduced to fundamental business concepts as they apply to e-commerce. Basic discussion will include security, privacy, order processing, and payment systems. Additionally, personal applications such as online banking, retail purchasing, internet marketing, and advertising will be discussed. **(3-0-3)**

CWEB 160 WEB SITE CONSTRUCTION - Delivery of this course will be through the internet. When planning to develop a web site in the business arena, there are several considerations to be made. Some concerns would be as follows: What are the considerations when choosing a web server? What database should be used? There are many considerations in web site construction, and through this course, students will learn to ask the right questions about the information technology infrastructure. There will be emphasis on planning a web site, policy issues, and security concerns. Additionally, students will gain understanding on hosting environments and operations budgeting. **(3-0-3)**

CWEB 201 CYBER SECURITY – This course introduces students to the field of cyber-security and includes the evolution of information security, cyber-security theory, and the importance of cyber-security to nations, businesses, society, and people. Students will be exposed to cyber-security technologies to help guard against information and application threats, learn how to analyze the threats, vulnerabilities and risks present in cyber space environments, and develop appropriate strategies to reduce, if not alleviate, potential cyber-security problems. Various processes and practices designed to protect networks, computers, programs, and data will be discussed. **(3-0-3)**

CWEB 210 ADVANCED WEB PAGE DESIGN – HTML - This course is designed to provide advanced technical skills to designing a web site (collection of web pages). As part of the interactive learning activity, students will learn how to incorporate functionality and animation into their web pages. Some related topics include integrating advanced multimedia techniques, implementing user authentication, database queries, understanding online ordering, tallying counts (hits), etc. **(3-0-3)**

CWEB 220 MANAGING A WEB SITE - The focus of this course is on understanding how to maintain a web site and how to optimize the server in which the web site is stored. This course will look at the concept of building a web site and take it through the process of actually implementing that web site. The process entails building a support team, maintaining and optimizing the server, addressing legal issues associated with web site operation, and dealing with contracting issues such as performance, availability and cost. Students will become knowledgeable of various requirements to implement a web site and what to be aware of in taking on support for an existing site. **(3-0-3)**

CWEB 230 WEB PRODUCTION - Delivery of this course is through the internet. This course is ideal for the non-technical manager. Web production provides students with an understanding of the design, organization, marketing and budgetary considerations of a small business web site. The focus of this course is more on how to design the website to meet the business needs or objectives and to select the appropriate tools for web production. Other topics will include understanding the basics of doing business on the internet (e-commerce) and understanding how to use search engines to promote a web site. **(3-0-3)**

DENTAL HYGIENE (DHYG)

DHYG 101 INTRODUCTION TO DENTAL HYGIENE - An introduction to dental hygiene including an overview of the normal oral cavity, common pathological conditions, preventive measures, dental hygiene education and community dentistry. This course will familiarize the student with the history and purpose of the school, administrative systems, regulations, the use of the library, study problems and vocational and educational information. **(1-0-1)**

DHYG 120 CLINICAL DENTAL HYGIENE ORIENTATION - Designed to provide dental hygiene students with basic didactic background for clinical skills required for dental hygiene practice. This course will introduce the student to basic computer concepts and integration of computer technology in patient assessment and dental hygiene treatment planning. Some hands-on laboratory experience is provided using software packages such as: word processing, spreadsheets, and MS PowerPoint for presentations. **Prerequisite: DHYG 101. Co-requisite: DHYG 121. (6-0-1)**

DHYG 121 CLINICAL DENTAL HYGIENE TECHNIQUE - This course is an introduction to basic clinical techniques required for entry into the first clinical level of basic patient care. **Co-requisite: DHYG 120. (0-8-2)**

DHYG 122 DENTAL ANATOMY - Study of the morphological characteristics of the teeth. A laboratory course in identifying and drawing teeth is included. **Prerequisites: BIOL 220, BIOL 222. Co-requisites: DHYG 120, DHYG 123. (2-2-1)**

DHYG 123 HEAD AND NECK ANATOMY - This course is designed to give the student a basic knowledge and understanding of head and neck anatomy, including terminology, osteology, and basic physiology of the oral cavity. **Prerequisites: BIOL 200, BIOL 220, BIOL 222. Co-requisites: DHYG 120, DHYG 121, DHYG 122. (3-1-2)**

DHYG 125 FUNDAMENTALS OF DENTAL RADIOLOGY This is an introductory course in conventional and digital dental radiology; including didactic instruction in radiation physics, radiation biology, radiation hygiene and radiographic processing techniques. It also includes an introduction to the radiological interpretation of normal anatomy, caries, periodontal disease and periodical disease. The student receives supervision in taking and processing intra- and extra oral radiographs on manikins as well as patients. *Prerequisites:* MATH 133, BIOL 220, BIOL 222, DHYG 101. *Co-requisites:* DHYG 120, DHYG 122, DHYG 123. (3-4-2)

DHYG 126 CLINICAL DENTAL HYGIENE LECTURE A continuation of DHYG 120. Special emphasis is placed on the dental hygiene process of care and treatment of patients that are medically compromised. *Prerequisites:* DHYG 120, DHYG 121, DHYG 123, DHYG 124, DHYG 125. *Co-requisites:* DHYG 127 (6-0-2)

DHYG 127 CLINICAL DENTAL HYGIENE I - A continuation of DHYG 121. Concentration on the application of the dental hygiene process of care. Students provide dental hygiene services to clinic patients during this course. Clinic requirements are expanded to reflect provision of care for more challenging case types. *Prerequisites:* DHYG 120, DHYG 121, DHYG 122, DHYG 123, DHYG 124, DHYG 125. *Co-requisites:* DHYG 126. (0-8-2)

DHYG 128 GENERAL AND ORAL PATHOLOGY - This course is designed to introduce the student to current concepts relative to the pathophysiologic mechanisms of human disease. The student will acquire a fundamental knowledge of diagnostic principles regarding systemic disease in general and oral diseases. *Prerequisites:* BIOL 200, DHYG 123, DHYG 124. *Co-requisites:* DHYG 126, DHYG 127. (3-0-2)

DHYG 129 PREVENTIVE DENTISTRY - This course provides the concepts of preventive dentistry. The history of disease prevention is also discussed during this course. *Prerequisites:* DHYG 120, DHYG 121. (4-0-1)

DHYG 130 PUBLIC AND COMMUNITY DENTAL HYGIENE - The administration of public health programs and issues regarding health promotion in the community. The primary focus is on implementing dental health programs in the community. The students are afforded the opportunity for a wide variety of extramural experiences, both observation and participation. This course also introduces the student to scientific methodology and the use of its attendant statistics. *Prerequisites:* MATH 124, MATH 130, DHYG 120, DHYG 121. (4-0-1)

DHYG 131 PHARMACOLOGY FOR DENTAL HYGIENISTS - The emphasis of this course is the pharmacodynamics of drug action. This includes modes of administration, mechanisms of action, biotransformation, excretion, drug interactions and side effects. Special considerations are given to those drugs relevant to the practice of dentistry. *Prerequisites:* DHYG 120, DHYG 121, DHYG 123. *Co-requisites:* DHYG 126, DHYG 127. (3-0-2)

DHYG 134 ORAL HISTOLOGY AND EMBRYOLOGY - An introductory course designed to provide the student with an understanding of the microscopic anatomy of oral structures. Embryological development is integrated with histology in the lectures. *Prerequisites:* BIOL 200, BIOL 220, BIOL 222. *Co-requisites:* DHYG 122, DHYG 123. (2-1-1)

DHYG 214 PERIODONTICS - A fundamental lecture and clinical course in periodontics with emphasis on basic understanding of the normal and diseased states of the periodontium. An orientation to the concepts of periodontal examination, nomenclature, charting, diagnosis, and treatment planning. *Prerequisites:* BIOL 200, DHYG 126, DHYG 127, DHYG 128, DHYG 129, DHYG 131. *Co-requisites:* DHYG 216, DHYG 217. (6-0-2)

DHYG 216 CLINICAL DENTAL HYGIENE II - Continuation of DHYG 127. Students apply dental hygiene preventive and therapeutic services while providing patient education in a clinical environment. Students will provide dental hygiene services to the child, adolescent, adult, elderly, and medically compromised patient. *Prerequisites:* DHYG126, DHYG127, DHYG129, DHYG131. *Co-requisites* *DHYG214.* (0-16-1)

DHYG 217 CLINICAL DENTAL HYGIENE LECTURE II - A didactic course to accompany DHYG 216. Continues on the study of dental hygiene theory and practices to include the dental hygiene process of care; on all types of patients listed above. *Prerequisites:* Successful completion of all first year dental hygiene courses. *Co-requisites* **DHYG 216.** (4-0-1)

DHYG 230 DENTAL MATERIALS - This course provides a working knowledge of metallurgy, ceramics and polymer science. Specific restorative and dental laboratory products are presented and their proper manipulation is described. Lab sessions involving some of the products provide experience in materials handling and emphasize technique. *Prerequisites:* CHEM 130, MATH 133, Successful completion of all first year dental hygiene courses. (3-3-2)

DHYG 232 PERIODONTICS II - This course is a continuation of DHYG 214. Special emphasis is placed on the discussion of surgical procedures, supportive care and maintenance therapies. *Prerequisites:* DHYG 214, Successful completion of all first year dental hygiene courses. *Co-requisites:* DHYG 234, DHYG 236 (4-0-1)

DHYG 234 CLINICAL DENTAL HYGIENE III - A second year clinical course. Students provide services with increased difficulty in the type and number of patients clinical activities to include treating moderate periodontal disease and patients with moderate/heavy deposits; activities will correlate to theory lecture course DHYG 236. *Prerequisites:* *DHYG 214, DHYG 216, DHYG 217.* *Co-requisites* *DHYG 232, DHYG 236, DHYG 238.* (0-16-3)

DHYG 236 CLINICAL DENTAL HYGIENE LECTURE III - This course is a didactic course designed to accompany DHYG 234. It expands the concepts of dental hygiene theory to include more complex case types utilizing critical thinking to analyze case studies and real life clinical patients. *Prerequisites:* DHYG 214, DHYG 216, DHYG 217. *Co-requisites* *DHYG 234.* (4-0-1)

DHYG 238 LOCAL ANESTHESIA AND PAIN CONTROL - This course is designed to instruct students in the art and science of local anesthesia. The course encompasses pre-anesthetic evaluation of the patient, the dental assessment and management of the medically compromised patient, physiology and pharmacology of local anesthetics and the management of medical emergencies. *Prerequisites:* BIOL 220, BIOL 222, DHYG 214 and successful completion of all first year Dental Hygiene courses. Course requirement: Approval by Dental Hygiene Program Director. (4-4-1)

DHYG 240 CLINICAL DENTAL HYGIENE IV - Advanced dental hygiene clinic activities to include all aspects of previous training at increased skill levels. This course accompanies DHYG 242. Prerequisites: DHYG 234, DHYG 236. *Co-requisites DHYG 242.* (0-16-4)

DHYG 242 CLINICAL DENTAL HYGIENE LECTURE IV - Clinical lecture course to accompany DHYG 240. Special emphasis is placed on techniques and equipment used in the treatment of advanced types of periodontal disease. Students are required to present comprehensive case study at the end of this course. *Prerequisites: DHYG 232, DHYG 236, DHYG 238.* Successful completion of all first year dental hygiene courses. *Co-requisite: DHYG 240.* (4-0-2)

DHYG 250 SURVEY OF DENTAL SPECIALTIES - Students learn the techniques used in the various specialties of dentistry such as periodontics, orthodontics, endodontics, oral surgery, prosthodontics, and oral medicine. *Prerequisites: DHYG 234, DHYG 236.* Successful completion of all first year dental hygiene courses. (2-0-1)

DHYG 252 ETHICS, JURISPRUDENCE AND PRACTICE MANAGEMENT - The laws and ethics relating to the practice of dental hygiene are covered in this course. Dental office policies and procedures are also covered. Student will become familiar with laws regarding dental hygiene practice and the Louisiana Dental Practice Act. *Prerequisites: DHYG 236, DHYG 238.* Successful completion of all first year dental hygiene courses *co-requisites: DHYG 240, DHYG 242.* (2-0-1)

DHYG 254 SEMINAR/DIRECTED STUDY - This course provides instruction in current trends relating to dental and dental hygiene education. Individual and Instructor assisted study and/or research in selected dental hygiene topics. Emphasis will be placed on review of current literature and research publications. *Prerequisites: Successful completion of all prior dental hygiene courses and approval of program director.* *Co-requisites: DHYG 240, DHYG 242.* (4-0-2)

DIALYSIS TECHNICIAN (DYLT)

DYLT 101 INTRODUCTION TO HEMODIALYSIS - An overview of contemporary dialysis environment in relation to history of dialysis, treatment for kidney failure, expected treatment outcomes, nutritional and adjustment considerations, quality assurance and current dialysis issues. (2-0-2)

DYLT 103 RENAL ANATOMY & PHYSIOLOGY - A detailed discussion of the normal structure and function of the kidney and other organs of the urinary system. (3-0-3)

DYLT 105 HEMODIALYSIS PRINCIPLES, DEVICES, & PROCEDURES - A discussion of the principles of dialysis, hemodialysis devices and hemodialysis procedures. (3-0-3)

DYLT 106 HEMODIALYSIS PATIENT CARE - This course is designed to introduce direct patient care assessment of vital signs, weight, and access sites, as well as to monitor the dialysis patient during treatment, and recognize abnormalities that are reported to the registered nurse. (2-1-2)

DYLT 109 WATER TREATMENT - A discussion of the purpose of water treatment, types of contaminants and effects on patients, components of a water treatment system and monitoring a water treatment system. (2-0-2)

DYLT 110 HEMODIALYSIS PRACTICUM I - Hands-on training of students at the dialysis center in the care of the hemodialysis patient. (2-2-4)

DYLT 112 HEMODIALYSIS PRACTICUM II - Hands-on training of students at the dialysis center in the care of the hemodialysis patient. (0-8-8)

ECONOMICS (ECON)

ECON 202 PRINCIPLES OF MACRO-ECONOMICS - This course gives a detailed analysis and interpretation of the national economy and global economic issue. Topics include: aggregate price-equilibrium theory, unemployment, inflation, national income accounting, Keynesian economic theory, fiscal policy, and monetary policy. Students will be required to utilize the Internet, financial and economic journals to keep abreast of current economic events. **Prerequisite: Students must be currently enrolled in or have completed MATH 133 or higher.** (3-0-3)

ECON 203 PRINCIPLES OF MICRO-ECONOMICS - This course emphasizes the scope and methodology of microeconomics. Economic principles to describe consumer and business, behavior and the processes of price determination and resource allocation will be discussed. The course focuses upon the understanding and application of economic tools to problems in competition, international trade and taxation. **Prerequisite: MATH 133 or higher.** (3-0-3)

EDUCATION (EDUC)

EDUC 209 INTRODUCTION TO EARLY CHILDHOOD EDUCATION - This is a survey course that will give the student a historical background of early childhood education and provide in-depth information needed to make meaningful the total study of child care including Special Education for ages, birth through six years. (3-0-3)

EDUC 229 PLAY ACTIVITIES FOR CHILDREN - This course is designed to provide planning, implementation and evaluation of play activities, and theories of play that will help 2-5 year olds develop motor skills. Class experiences that will help children with problems are an integral part of this course. Participants are required to work 24 hours in area Early Childhood classes under master teachers. (3-0-3)

EDUC 235 CHILD DEVELOPMENT - The course focuses are scientific study of children, the way they grow and develop, the way their personalities are formed, the way they think and learn, and the special ways they respond to the special demands of their culture. (3-0-3)

EDUC 239 PARENTING - The course is aimed at introducing students to recommended parenting techniques; and psychological, social, and economic aspects of parenting; and ways that parents can contribute meaningfully to the day care center. **Prerequisite: EDUC 209.** (3-0-3)

EDUC 247 CURRICULUM AND PLANNING FOR EARLY CHILDHOOD EDUCATION
The planning and development of meaningful curricula for pre-elementary school children will be done. Primary focus is on the study of principles, methods and materials for curriculum development that influence and direct the intellectual, emotional, physical and social growth of children 2-5 years of age. **Prerequisite: EDUC 209, PSYC 235, MUSC 268, FIAR 294, BIOL 105, and HPRE 229.** (3-0-3)

EDUC 249 PRACTICUM IN EARLY CHILDHOOD EDUCATION PROGRAMS - Students will get work experience in area day care, nursery and kindergarten schools. Seminars will be held weekly. Students who take Day Care Administration will work in a licensed center and will engage in practical activities of planning, financing, organizing, marketing and managing day care facilities. Students will also be exposed to experiences in innovative day care practices with all ages through adult day care. ***Prerequisite:*** Students must have completed all course requirements before enrollment or have special permission from the advisor and department chairman to take courses along with practicum. (3-0-3)

EDUC 265 EARLY DIAGNOSIS OF CHILDREN'S DISEASES - This course provides instruction on recognizing early symptoms of childhood diseases such as measles, chicken pox and mumps. Students will learn appropriate classroom precautions. ***Prerequisites:*** EDUC 211 and EDUC 209. (3-0-3)

EMERGENCY MEDICAL TECHNICIAN - BASIC (EMTB)

EMTB 200 EMERGENCY MEDICAL TECHNICIAN LECTURE - A didactic course designed to educate the student on all aspects of the Emergency Medical Technician Basic. ***Co-requisite:*** EMTB 201. (9-0-9)

EMTB 201 EMERGENCY MEDICAL TECHNICIAN PRACTICUM - A course designed to provide hands-on practicum for students in the Emergency Medical Technician course. ***Co-requisite:*** EMTB 200. (0-12-12)

ENGLISH (ENGL)

ENGL 089 ENGLISH GRAMMAR - Students who need a review of grammar, sentence structure and principles of writing are recommended for English 089. ***(This course may not be counted toward fulfillment of degree requirements.)***(3-2-3)

ENGL 090 ENGLISH FUNDAMENTALS - This course is taught in a sequence with ENGL 089 English Grammar. Focus is on the writing process. Technical aspects of grammar taught in ENGL 089 English Grammar are reviewed. Emphasis is placed on sentence construction, punctuation, paragraph development, theme writing and summary skills. ***(This course may not be counted toward fulfillment of degree requirements.)***(3-0-3)

ENGL 110 FRESHMAN ENGLISH I - [LCCN: CENL 1013, Freshman English I] Introduces students to the critical thinking, reading, writing and rhetorical skills required in the college/university and beyond, including citation and documentation, writing as process, audience, awareness; and writing effective essays. (3-0-3)

ENGL 111 FRESHMAN ENGLISH II - [LCCN: CENL 1023, Freshman English II] Continuation and further development of material and strategies introduced in ENGL COMPOSITION I. Primary emphasis on composition, including research strategies, argumentative writing, evaluation, and analysis. ***Prerequisite:*** ENGL 110 or ENGL 112. (3-0-3)

ENGL 200 INTRODUCTION TO LITERATURE [LCCN: CENL 2323, INTRODUCTION TO LITERATURE]- Introduction to various literary genres; includes critical analysis and writing about literature. *Prerequisites:* ENGL 110 and ENGL 111. (3-0-3)

ENGL 201 WORLD LITERATURE [LCCN: CENL 2223, MAJOR WORLD WRITERS; CENL 220, WORLD LITERATURE I; OR CENL 2213, WORLD LITERATURE II] - A survey of significant world writers; includes literary analysis and writing about literature. *Prerequisite:* ENGL 111 or permission of the instructor. (3-0-3)

ENGL 210 ENGLISH LITERATURE [LCCN: CENL 2123 MAJOR BRITISH WRITERS; CENL 2103, BRITISH LITERATURE I; CENL 2113, BRITISH LITERATURE II; OR CENL 2303, INTRODUCTION TO FICTION] - A survey of significant British writers; includes literary analysis and writing about literature. *Prerequisite:* ENGL 111 or permission of the instructor. (3-0-3)

ENGL 213 AFRICAN-AMERICAN LITERATURE [LCCN: CENL 2403, INTRODUCTION TO AFRICAN AMERICAN LITERATURE]- Introduction to African American literature; includes critical analysis and writing about literature. *Prerequisite:* ENGL 111 or permission of instructor. (3-0-3)

ENGL 214 AMERICAN LITERATURE [LCCN: CENL 2173, MAJOR AMERICAN WRITERS; CENL 2153, AMERICAN LITERATURE I; OR CENL 216, AMERICAN LITERATURE III]- A survey of significant American writers; includes literary analysis and writing about literature. *Prerequisite:* ENGL 111 or permission of the instructor. (3-0-3)

ENGL 225 CREATIVE WRITING - Creative style and techniques in traditional and contemporary forms of poetry and short fiction are stressed in this course. *Prerequisite:* ENGL 111 or permission of instructor. (3-0-3)

ENGL 230 ADVANCED COMPOSITION - This writing course develops proficiency in advanced writing techniques especially persuasive writing. Emphasis is placed on the mechanics of writing and the effectiveness of style in the development of various themes. *Prerequisite:* ENGL 111 or permission of instructor. (3-0-3)

ENGINEERING TECHNOLOGY (ENGR)

ENGR 110 ENGINEERING ORIENTATION - Introduction to the engineering profession: engineering problem solving, use of scientific calculation and introduction to the design process. (1-0-1)

ENGR 112 ENGINEERING DRAWING - Development of proficiency in basic drafting techniques, free-hand sketching and lettering, view analysis and multi-view projection, auxiliary view, detail dimensions, pictorial representation, and working drawings. (0-6-3)

ENGR 114 INTRODUCTION TO CIRCUIT ANALYSIS I - Non-calculus introduction to elementary electric and magnetic concepts, DC network theorems, and magnetic circuits. (3-0-3)

ENGR 115 CIRCUIT ANALYSIS I LABORATORY - Laboratory study of selected topics studied in Introduction to Circuit Analysis I. **(0-2-1)**

ENGR 116 INTRODUCTION TO CIRCUIT ANALYSIS II - Devoted to sinusoidal AC circuits, resonance, transformers, two-part system parameters and computer use in circuit analysis. Basic circuit analysis techniques and network theorems are applied to sinusoidal AC circuits. **Prerequisites: MATH 130 and ENGR 114. (3-0-3)**

ENGR 117 CIRCUIT ANALYSIS II LABORATORY - Consists of laboratory experiments designed to reinforce the theoretical instruction covered in ENGR 116. **(0-2-1)**

ENGR 120 ENGINEERING GRAPHICS -Orthographic projection, isometric drawing, freehand sketching, sections and auxiliary view, detail and assembly working drawing, dimensions and standards, graphic representation, revolutions, and vector analysis. **Engineering majors only. (0-6-3)**

ENGR 224 ENGINEERING MECHANICS I (STATICS) - Introduction to vector algebra, equivalent force systems, equations of equilibrium, structural mechanics, trusses, frames, chains and cables, friction, properties of surfaces, center of gravity, moment of inertia, variational mechanics, methods of virtual work, and method of minimum potential energy. **Prerequisites: PHYS 221 and MATH 140. (3-0-3)**

ENGR 225 ENGINEERING MECHANICS II (DYNAMICS) - Introduction to particle kinematics, relative motion, particle dynamics, D'Alembert's principle, motion of a system of particles, energy methods, work energy equations, momentum methods, impact, angular impulse, and Euler's equation of motion. **Prerequisite: MATH 140. (3-0-3)**

FINEARTS(FIAR)

FIAR 110 DESIGN I - This course is a study of the elements and principles of two dimensional art including color, composition and visual perception. Primarily for art majors. There are no prerequisites. **(0-6-3)**

FIAR 111 Design II - This is an advanced course that is a continuation of the study of elements and principles with the addition of the exploration of new materials. **Prerequisite: FIAR 110. (3-0-3).**

FIAR 130 DRAWING I - Drawing 130 consists of a basic approach to linear representation with attention to space, gesture, value, texture, and shape. **(0-6-3)**

FIAR 131 DRAWING II - This course is a continuation of linear representation with added problems in space, gesture, value, texture, and shape. **Prerequisite: FIAR 130. (0-6-3)**

FIAR 200 UNDERSTANDING THE ARTS - Understanding the Arts is open to all undergraduates. It is an introduction to art in which the visual elements and principles are examined through a study of key monuments in history in modern and earlier times. **(3-0-3)**

FIAR 297 PROBLEMS IN ART - Students will research problems in pictorial representation by using various media. The visual problems are selected with the consent of the instructor based on student's portfolio evaluation. This course can be repeated once. **(1-5-3)**

FRENCH (FREN)

FREN 101 ELEMENTARY FRENCH I - [LCCN: CFRN 1013, ELEMENTARY FRENCH I]- Basic lexicon and structure of French; emphasis on the four basic skills (listening, speaking, reading, and writing) and culture of the French and Francophone world. Beginning course: no previous knowledge of French expected or required. **(3-0-3)**

FREN 102 ELEMENTARY FRENCH II - [LCCN: CFRN 1023, Elementary French II] - Continuation of the study of French on the elementary level. **Prerequisite:** FREN 101. **(3-0-3)**

FREN 200 INTERMEDIATE FRENCH I- [LCCN: CFRN 2013, INTERMEDIATE FRENCH I]- Intermediate level study of structures and lexicon of French; additional emphasis on the four basic skills and culture. **Prerequisite:** FREN 102. **(3-0-3)**

FREN 201 INTERMEDIATE FRENCH II - [LCCN: CFRN 2023, INTERMEDIATE FRENCH II] - continuation of the study of French on the intermediate level. **Prerequisite:** FREN 200. **(3-0-3)**

FRESHMAN STUDIES (FROR)

FROR 120 COLLEGE SUCCESS - College Success is designed to facilitate the successful transition of first time freshman into the learning community of the university. Topics addressed during the course include time management, learning styles, classroom expectations, support services, and career planning. **(1-0-2)**

FIRE SERVICE MANAGEMENT (FSMC)

FSMC 110 HAZARDOUS MATERIALS AWARENESS - This course provides training for the emergency responder who, in the course of duty, may be the first on the scene of an incident involving hazardous materials. These responders are not expected to take any action other than recognizing the hazard and contacting trained personnel. This course meets NFPA Standard 472 and EPA 40 CFR Part 311 for Awareness Level Response dependent studies course which spans the entire 15 week semester. **(3-0-3)**

FSMC 120 HAZ MAT OPERATIONAL LEVEL - This course addresses the emergency responder with the knowledge to respond to releases or potential releases of hazardous substances as part of the initial response at the site. The knowledge acquired should enable the responder to contain the release and prevent exposures of the hazardous substance. Practical exercises and teamwork are included in this course. Upon completion, the student should be able to demonstrate competency in knowledge of the basic hazard and risk assessment techniques; selection and use of proper personal protective equipment; understanding of basic hazardous material terms, basic control, containment, and/or confinement operations within the capabilities of the resources and personal protective equipment available within the unit; implementation of basic decontamination procedures; and

understanding of relevant standards, operating procedures, and termination procedures. This course meets the needs of emergency responders for OSHA 29 CFR 1910.120 EPA 40 CFR Part 311, an NFPA 472. **(3-0-3)**

FSMC 130 FIREFIGHTER I - This course is designed to exceed the standards for NFPA 1001 standard for Fire Fighter Professional Qualifications. Addressed in this course are cognitive knowledge and motor skills required by NFPA. Throughout the course, students shall demonstrate and identify the proper use of tool and appliance in a safe manner; don and doff personal protective equipment, proper ladder carry and raises, and safely climb and lock into a 100 foot aerial ladder. The students will also be required to demonstrate proper water application for structural fire-fighting in single family dwellings, commercial building, and industrial fire settings. **(3-0-3)**

FSMC 140 FIREFIGHTER II - Students are introduced to fire protection covered in the NFPA 472 standards for Professional Competence of Responders to Hazardous Materials Incidents for Awareness and Operations levels. The Awareness level covers the use and application of the North American Emergency Response Guidebook and initial response objectives for hazardous and terrorist scenes. Operations level objectives encompass ways to protect and decontaminate responders; defensive maneuvers, such as, damming, diking, and diversion; and identification of tank rail cars and trucks. Training includes the American Heart Association Healthcare Provider course. This course instructs students on proper techniques of checking for responsiveness, rescue breathing, and cardiopulmonary resuscitation for adults, children, and infants. Also addressed is the use of an Automatic External Defibrillator for adults and children. **(3-0-3)**

FSMC 150 FIRE SERVICE INSTRUCTOR I - This course is designed to enable instructors in the fire service in instructional methodology. Topics to be covered include training objectives, lesson plans, methods of instruction, concepts of adult learning, testing and evaluation. Participants will prepare lesson plans and make oral presentations. This course meets objectives of SFPA 1041: Fire Service Instructor Professional Qualifications Level. **(3-0-3)**

FSMC 260 FIRE SERVICE INSTRUCTOR II - This course provides information on how to design a course, determine course objectives, develop course outlines, select appropriate tests and supporting aids, and coordinate support for the class. The course emphasizes an approach that is oriented toward performance-based local training. **(3-2-4)**

FSMC 270 FIRE OFFICER I - This Fire Officer training program is designed to prepare fire officers or aspiring fire officers to become leaders in the fire service. This course is an introduction to a fire officer's duties. Content includes the requisite mind set, report writing, diversity, workplace safety, decision making, quality assurance, supervisory practices and pre-incident planning. Work-based learning to include managing task assignments, member assistance programs, applying human resource management policies, citizen's complaints, safety regulations and accident investigation. Content includes determining fire cause, emergency operations, compliance issues, scene safety, IMS, strategy/tactics, size-up and action planning and the PIO function. Work-based learning to include directing training evolutions, managing public inquires, determining preliminary fire cause, pre-incident planning, incident action planning and emergency operations. **(3-2-4)**

FSMC 280 FUNDAMENTALS OF FIRE OPERATIONS (BT) PART - Students are introduced to fire protection and emergency medical services. This program meets or exceeds all requirements set by the Louisiana Commission on Fire Protection and NFPA Standard 1001,

Firefighter I and II under IFSAC and NPQS. Students are introduced to fire protection. This course will present and discuss fire chemistry, behavior of fire, fire hazards of materials, fire suppression systems, alarms and detection systems, process fire hazards, and transportation fire hazards. Life safety and building codes are emphasized. Demonstration and observation of fire protection systems and equipment are included in this course. **(3-0-3)**

FSMC 290 INCIDENT COMMAND SYSTEM (ICS) - This course integrates the National Incident Management System (NIMS) guidelines and meets the NIMS Baseline Training requirements using all-hazards, all-agency approach. It is the first in a series of modules (100, 200, 700 and 800) designed to meet all-hazard, all-agency NIMS and ICS requirement for operational personnel. The 100 module integrates the NIMS guidelines and meets the NIMS Baseline Training Requirements using an all-hazard, all-agency approach. ICS 200 introduces NIMS and explains the purpose, principles, key components and benefits of NIMS. The module also contains “Planning Activity” screens giving students an opportunity to complete some planning tasks during this course. The 700 and 800 modules introduce participants to the concepts and principles of the National Response Framework. Lab consists of the appropriate use and accurate completion of the incident command forms. **(3-2-4)**

HEALTHCARE ACCESS ASSOCIATE (HCAA)

HCAA 105 BASIC HEALTHCARE ACCESS PROCEDURES – This course is designed to include an overview of the electronic health record - its purposes, uses, and content, HIPAA as it relates to privacy and confidentiality respective to protected patient health information, basic registration procedures, basic coding systems, and performance improvement. **(3-0-4)**

HCAA 200 ADVANCED HEALTHCARE ACCESS PROCEDURES – This course is designed to include resource scheduling, registration input systems and/or practice management systems, front office procedures, verifying insurance, and processes for securing treatment authorizations, copayment amounts, and patient financial responsibility. **(3-0-3)**

HCAA 210 HEALTHCARE ACCESS ASSOCIATE EXAM REVIEW AND INTERNSHIP
This course is designed to provide students with a supervised work and learning experience related to practical applications associated with the registration process and a capstone review and mock examination in preparation for a national certification examination. **(0-8-1)**

HISTORY (HIST)

HIST 104 AMERICAN HISTORY - American History 104 is a general survey of the history of America from the period of discovery to the Civil War. **(3-0-3)**

HIST 105 AMERICAN HISTORY - American History 105 is a general survey of the history of America from the period of Civil War/Reconstruction to the present time. **(3-0-3)**

HIST 114 HISTORY OF WESTERN CIVILIZATION - This course is a survey of the history of the development of Western Civilization from prehistoric time to the 16th century. **(3-0-3)**

HIST 115 HISTORY OF WESTERN CIVILIZATION - This course is a continuation of history of western civilization with emphasis on civilization from the 16th century to the present. **Prerequisite:** HIST 114. (3-0-3)

HIST 211 AFRICAN-AMERICAN HISTORY - This course in African-American History is a survey of the political, economic and social history of Black Americans. (3-0-3)

HIST 230 LOUISIANA HISTORY - This course in Louisiana History is a survey of the history of Louisiana from early exploration and settlement to the present. (3-0-3)

HEALTH INFORMATION TECHNOLOGY (HITG)

HITG 105 HEALTH DATA CONTENT AND STRUCTURE - Introduction to the health information management profession and the health record. This course will provide an overview of the functions, content, and structure of the health record, data access and retention, forms and screen design, indexes and registers, data storage and retrieval systems, quantitative and qualitative analysis; numbering and filing systems; and healthcare data sets. (3-0-3)

HITG 109 LEGAL ASPECTS OF HEALTH INFORMATION - Study of legislative and regulatory processes with an emphasis on health information laws and regulations related to PHI and HIPAA privacy standards. An overview of healthcare compliance, confidentiality, ethical, legal, and privacy issues, and data security applied to health record practice. **Prerequisites:** HITG 105 and 110. (3-0-3)

HITG 110 INTRODUCTION TO COMPUTER APPLICATIONS FOR HEALTHCARE PROFESSIONALS Orientation to computer concepts and technology related to health information technology which includes but is not limited to organization of computer systems, word processing, excel, PowerPoint, and databases. Introduction to e-health concepts including definitions, users, and technology. (2-0-2)

HITG 202 HEALTHCARE DELIVERY SYSTEMS - Study of the healthcare delivery system in the U.S.; the structure and operation of a healthcare organization and the role of various healthcare providers and disciplines; and health record content, data sets, licensure, certification, and accreditation, applicable computer information systems, and reimbursement systems in alternative healthcare facilities. **Prerequisites:** HITG 105 and 110. (3-0-3)

HITG 208 INTRODUCTION TO MEDICAL SCIENCE - A study of the nature and etiology of disease. An introduction to symptomatology, clinical diagnosis, and treatment of diseases. Review of basic anatomical structures, assessing the major pathological conditions, and an introduction to the pharmacological treatment of diseases per body system. **Prerequisites:** ALLH 210; BIOL 220, BIOL 220L, BIOL 222, BIOL 222L, HITG 105 and HITG 110. (3-0-3)

HITG 209 ENTRY LEVEL REVIEW SEMINAR - Lectures, presentations, mock exams, and administration of a comprehensive exam related to the first twelve months of professional courses in preparation for a national certification examination. **Prerequisites:** HITG 109 and 202. (4-0-1)

HITG 215 HEALTH INFORMATION TECHNOLOGY AND SYSTEMS - Overview of computer technology concepts related to healthcare and application of the tools and techniques for collecting, storing, and retrieving data. **Prerequisites: HITG 105 and HITG 110. (3-0-3)**

HITG 225 BASIC CODING LECTURE AND LAB - Classifying diseases and operations using ICD-10-CM/PCS along with coding/sequencing guidelines, clinical vocabularies, terminologies/nomenclatures. The interaction of different Prospective Payment Systems with classification systems will be emphasized. Evaluating the accuracy of diagnostic and procedural coding along with data quality, the Uniform Hospital Discharge Data Set. **Prerequisites: HITG 105, 110, and 208. (3-1-3)**

HITG 222 ADVANCED CODING - Overview of the CPT-4/HCPCS coding system with emphasis on basic coding rules and application of CPT/HCPCS coding procedures in the ambulatory care setting utilizing manual and automated encoding systems. **Prerequisites: HITG 105, HITG 110, and HITG 208. (3-1-3)**

HITG 223 BILLING AND REIMBURSEMENT METHODS - Overview of reimbursement methodologies inclusive of Prospective Payment System, Diagnosis Related Groups, Resource Based Relative Value System, Ambulatory Patient Groups, Case Mix Analysis, and other reimbursement program such as managed care, Medicare, etc. An introduction to revenue cycle management to include billing processes, claims management, and chargemaster. **Prerequisites: HITG 105, HITG 110, and HITG 208. (3-0-3)**

HITG 227 CODING REVIEW SEMINAR - Lectures, presentations, mock exams, and administration of a comprehensive exam related to coding guidelines, classification systems, and reimbursement methods in preparation a national certification examination. **Prerequisites: HITG 208, HITG 217, HITG 222, and HITG 223. (3-0-3)**

HITG 231 HEALTHCARE STATISTICS & QUALITY IMPROVEMENT - Computation and display of healthcare statistical data for administrative purposes, quality improvement concepts and tools, accrediting and licensing standards for health record documentation, case management, risk management, and medical staff credentialing processes. **Prerequisites: HITG 105 and HITG 110. (3-0-3)**

HITG 233 ORGANIZATIONAL RESOURCES AND MANAGEMENT - Study and application of the basic functions of management, and human, financial, and physical resources. Topics include: planning, organizing, controlling, leading, team-building, orientation and training programs, workflow processes, budgets, resource allocation, staffing, and ergonomics. **Prerequisites: HITG 105 and HITG 110 (3-1-3)**

HITG 241 PROFESSIONAL PRACTICE EXPERIENCE I - On-site supervised work experience in hospitals, affiliation sites, or non-traditional settings related to the practical application of routine health record procedures, storage, retrieval systems, legal aspects, and basic coding. (Simulated and/or directed). **Prerequisites: HITG 209 and HITG 224 (0-12-2)**

HITG 248 PROFESSIONAL PRACTICE EXPERIENCE II - Supervised work and learning experiences in campus laboratory and healthcare facilities with an emphasis on concepts taught in advanced health information courses (basic and advanced coding, quality management and information Standards, reimbursement systems, and organizational resources and management). (Simulated and/or directed). **Prerequisites: HITG 231, HITG 233 and HITG 110 (0-16-3)**

HITG 250 ADVANCED REVIEW SEMINAR - A capstone course designed to focus on reflection of professional practice experiences, test-taking strategies, and the administration of mock examination in preparation for the RHIT examination. **Prerequisites: HITG 209 and HITG 224 (6-0-3)**

HOSPITALITY OPERATIONS (HOPR)

HOPR 100 INTRODUCTION TO THE HOSPITALITY INDUSTRY - This course lays the groundwork for a basic understanding of the lodging and food service industry by tracing the industry's growth and development both nationally and internationally, by reviewing the organization of hotel and food and beverage operations, and by focusing on industry opportunities and future trends. **(3-0-3)**

HOPR 141 FOOD AND BEVERAGE MANAGEMENT - Covers the principles and procedures involved in an effective food and beverage control system, including standards determination, the operating budget, cost-volume-profit analysis, income and cost control, menu pricing, theft prevention, labor cost control, and computer applications. **(3-0-3)**

HOPR 143 FOOD SAFETY - Presents a systems approach to answering public health concerns, reducing sanitation risks, and ensuring satisfaction for guests, staff members, and owners. Explains how to define and implement sanitation quality, cost control, and risk reduction standards in a hospitality operation. **(3-0-3)**

HOPR 232 FRONT OFFICE PROCEDURES - This course presents a systematic approach to front office procedures by detailing the flow of business through a hotel, from the reservations process to check-out and settlement. The course also examines the various elements of effective front office management, paying particular attention to the planning and evaluation of front office. **(3-0-3)**

HOPR 246 HOSPITALITY PURCHASING MANAGEMENT -This course describes how to develop and implement an effective purchasing program focusing on issues pertaining to supplier relations and selection negotiation and elevation. This course includes in depth material regarding major categories of purchasing and replacing. *Replaces HOPR 295. **(3-0-3)**

HOPR 249 MANAGING SERVICES IN HOSPITALITY - This course provides students with practical skills and knowledge for effective management of food service operations. It presents basic service principles while emphasizing the importance of meeting and whenever possible exceeding the expectation of guests. *Replaces HOPR 110. **(3-0-3)**

HOPR 261 PRINCIPLES OF SUPERVISION - This course is designed to provide students with the principles of supervision as applied specifically to the hospitality industry. **(3-0-3)**

HOPR 270 MARKETING AND HOSPITALITY - This course is designed to provide students with basic knowledge and practical experience that will enable them to develop strategic and operating marketing plans for hospitality properties. It stresses the marketing orientation as a management philosophy that guides the design and delivery of guest services. **(3-0-3)**

HOPR 272 OPERATIONS MANAGEMENT - This course provides students with practical skills and knowledge for effective management of food services operations. It presents basic service principles while emphasizing the importance of meeting the needs and, whenever possible, exceeding the expectations of guests. **(3-0-3)**

HEALTH AND PHYSICAL EDUCATION (HPRE)

HPRE 110 PRINCIPLES OF HEALTH - Emphasis is placed on health science as related to personal and community living in this course. It is open to all undergraduates. **(3-0-3)**

HPRE 130 STANDARD FIRST AID - This course is an introduction to the care, prevention and treatment of accidents and sudden illnesses. Standard First Aid certification is available. **(2-0-2)**

HPRE 200 INTRODUCTION TO PHYSICAL EDUCATION - This course provides an orientation to the professional opportunities available in physical education and related fields. It is offered to students who intend to major or minor in physical education. **(3-0-3)**

HPRE 216 TEAM SPORTS - The course provides techniques in teaching speedball, soccer, touch football, field hockey, basketball, volleyball, swimming, softball, track and field and golf. Emphasis is on teaching materials and methods. **(2-0-2)**

HPRE 229 PLAY ACTIVITIES FOR CHILDREN - This course is designed to provide planning, implementation and evaluation of play activities, and theories of play that will help 2-5 year olds develop motor skills. Class experiences that will help children with problems are an integral part of this course. Participants are required to work 24 hours in area Early Childhood classes under master teachers. **Prerequisite: EDUC 210. (3-0-3)**

HPRE 260 SCHOOL AND COMMUNITY HEALTH - This course is designed to consider the nature, scope and objectives of school and community health programs. The role of school personnel in promoting school-community relations and dealing with basic health problems is stressed. **(3-0-3)**

HPRE 270 PHYSICAL FITNESS WORKSHOP - This course is designed to provide physical training and conditioning while emphasizing how the body functions and how to maintain proper physical fitness. **(2-0-2)**

HPRE 299 DRUG EDUCATION - This course covers legal, sociological, psychological and physiological aspects of drug use. Values clarification and other innovative methods of curbing drug abuse will be explored. Both prescription and over-the-counter drugs will be covered. **(3-0-3)**

HUMAN SERVICES (HUSR)

HUSR 108 INTRODUCTION TO HUMAN SERVICES - This course offers skills training in the use and application of human service workers. This course outlines the historical and theoretical perspective, and primary focuses on human needs. The characteristics of an effective helper, social policy, trends, and prevention are reviewed. **(3-0-3)**

HUSR 109 COMMUNICATION SKILLS IN THE HELPING PROFESSION - This course provides a structural framework for the helping process that incorporates outcome and process goals, philosophy of growth, communications and facultative skills. Skills training in the use and application of the tools of a professional helper, such as interviewing, establishing rapport and empathy, recognizing verbal and nonverbal cues, assessment techniques and other skills pertinent to establishing a counseling relationship. **(3-0-3)**

HUSR 110 CLINICAL WRITING - This course introduces students to the proper application of the standards for writing human service cases. Assessment and evaluation of human service cases is taught and incorporated into the writing and presentation of these cases. **(3-0-3)**

HUSR 113 GROUP DYNAMICS - Beginning group leaders are trained in the exploration of theories associated with group dynamics. Students have a variety of group-leading experiences and are encouraged to have in-depth experiences of leadership behaviors. **(3-0-3)**

HUSR 210 INTRODUCTION TO DRUG AND ALCOHOL ABUSE - This is a survey course designed to familiarize the student with the variety of findings, problems, controversies and programs associated with drug and alcohol use/abuse. Political and legal perspectives are covered and include an orientation to existing varieties of treatment and possible careers in the field of drug abuse treatment. **(3-0-3)**

HUSR 215 BIOPSYCHOSOCIAL ASPECTS OF ALCOHOLISM - The course provides the students with a clear understanding of the dynamics of alcoholism as a disease, its impact on the individual, family system and community-at-large. **(3-0-3)**

HUSR 220 HEALTH, AGING, DEATH AND BEREAVEMENT - Addresses health issues of older people using the Strengths Model. Also includes the study of death and bereavement and the basic principles of bereavement counseling as related to human mortality and the emotional distress of the bereaved person and family. **(3-0-3)**

HUSR 221 ISSUES OF DOMESTIC VIOLENCE - This course will cover the basic aspects of domestic violence/abuse issues, and will provide the helpers with the knowledge to assist them in recognizing the signs and traits of both overt and covert domestic abuse. An overview of the major components of current intervention programs and strategies, including effective assessment and treatment methods, will be discussed along with prevention strategies and community resources. **(3-0-3)**

HUSR 222 COUNSELING THERAPIES - The entire milieu of rational, emotive and psychodynamic modalities is explored. Attention is given to the understanding of psychological and emotional domains of clients and how to facilitate desired change through the development of a skill set. **(3-0-3)**

HUSR 239 COMMUNITY DRUG/ALCOHOL PROGRAMS - This is a field course in which the participating student is directly exposed by means of field visits to those community agencies and organizations concerned with criminal rehabilitation, therapeutic communities, and treatment programs. **(3-0-3)**

HUSR 250 CHILD WELFARE - Description and analysis of human services and programs for youth, children, and infants are discussed. Special focus is placed upon the needs and services for minority children. Applicable Federal and State laws related to child welfare issues are presented and discussed. **(3-0-3)**

HUSR 289 HUMAN SERVICES INTERNSHIP - This course involves observation and field work at selected sites and requires students to be involved with community organizations, coupled with a field placement for a minimum of twenty (20) hours per week for ten (10) weeks. **Prerequisite: 21 credit semester hours in Human Services. (3-0-3)**

MATHEMATICS (MATH)

MATH 088 BASIC MATHEMATICS - This course is designed for students who need to improve basic computational skills. Topics include the following: whole numbers, fractions, decimals, and percent. **(This course may not be counted toward fulfillment of degree requirements.) (3-2-3)**

MATH 089 ELEMENTARY ALGEBRA - This course introduces the student to the basic concepts of algebra. Topics include Equations, inequalities and applications, Graphing and functions, System of linear equations and inequalities. **Prerequisite: MATH 088 or satisfactory score on the placement exam. (This course may not be counted toward fulfillment of degree requirements.) (3-0-3)**

MATH 090 INTERMEDIATE ALGEBRA - This course is a continuation of algebra. Topics include exponents and polynomials, factoring, rational expressions and equations, rational exponents and radicals, quadratic equations and inequalities. **Prerequisite: MATH 091 or satisfactory score on the placement exam. (This course may not be counted toward fulfillment of degree requirements.) (3-0-3)**

MATH 126 TECHNICAL MATHEMATICS - This course is designed for use in a trade or technical area. Topics include equations and inequalities, algebraic fractions, radicals, quadratic equations and inequalities, functions and graphs, system of equations, trigonometry, vectors and triangles. **Prerequisite: MATH 092 or higher. (3-0-3)**

MATH 133 ALGEBRA FOR COLLEGE STUDENTS - [LCCN: CMAT 1203, APPLIED ALGEBRA] Emphasis on application involving; solving equations and inequalities; function properties and graphs; linear, quadratic, polynomial, exponential and logarithmic functions. **Prerequisite: ACT of 19 or higher, Math Placement Score, or MATH 090. (3-0-3)**

MATH 135 PRE-CALCULAS ALGEBRA - [LCCN: CMAT 1213, COLLEGE ALGEBRA] - In-depth treatment of solving equations and inequalities; function properties and graphs; inverse functions; linear, quadratic, polynomial, rational, exponential and logarithmic functions with applications; systems of equations. **Prerequisite: ACT score of 20 or higher appropriate placement test score, or MATH 133. (3-0-3)**

MATH 136 CONTEMPORARY MATH - [LCCN: CMAT 1103, Contemporary Math] - This course provides an introduction to topics in contemporary mathematics. Topics may include the theory of finance, perspective and symmetry in art, formal Aristotelian logic, graph theory, probability and odds, statistics, elementary number theory, optimization, numeracy in the real world, and historical topics in mathematics that have influenced contemporary mathematics. **(3-0-3)**

MATH 140 PLANE TRIGONOMETRY - [LCCN: CMAT 1223, TRIGONOMETRY] - Trigonometric functions and graphs; inverse trig functions; fundamental identities and angle formulas; solving equations and triangles with applications; polar coordinate system. **Prerequisite: MATH 133. (3-0-3)**

MATH 200 FINITE MATHEMATICS - [LCCN: CMAT 1313, FINITE MATH -] Systems of linear equation, vectors, matrices, and matrix algebra; linear inequalities; counting techniques; permutations and combinations; probability; basic concepts in mathematics of finance (annuities included); and an introduction to statistics. **Prerequisite: MATH 133. (3-0-3)**

MATH 210 INTRODUCTION TO PROBABILITY AND STATISTICS - [LCCN: CMAT 1303, INTRODUCTORY STATISTICS] - Descriptive statistics; probability; discrete and continuous (including binomial, normal and T) distributions; sampling distributions; interval estimation; hypothesis testing; linear regression and correlation. **Prerequisite: MATH 133 or higher or consent of instructor. (3-0-3)**

MATH 230 LINEAR ALGEBRA - Topics include: systems of linear equations, vector spaces, linear transformations, matrices, and determinants. **Prerequisite: MATH 162 or higher. (3-0-3)**

MATH 264 ANALYTIC GEOMETRY AND CALCULUS I - [LCCN: CMAT 2114, Calculus I] - Limits and continuity of functions; introduction of derivative; techniques of differentiation; chain rule; implicit differentiation; differentiation of transcendental and inverse functions; applications of differentiation: concavity, relative extrema, maximum and minimum values of a function, optimization, anti-differentiation, definite integrals, Fundamental Theorem of Calculus, areas, applications of definite integrals, work and volume. *(Credit/placement exam may be required if transferring a course with fewer credits than the receiving institution.)* **Prerequisite: MATH 140 or higher. (4-0-4)**

MATH 265 ANALYTIC GEOMETRY AND CALCULUS II - [LCCN: CMAT 2124, CALCULUS II] Techniques of integration; applications of the integral; parametric equations, polar coordinates, sequences and infinite series. *(Credit/placement exam may be required if transferring a course with fewer credits than the receiving institution.)* **Prerequisite: MATH 264. (4-0-4)**

MASS COMMUNICATION

MCOM 100 INTRODUCTION TO MASS COMMUNICATION - This course introduces students to various media forms, history, theories and technologies of mass communication. **(3-0-3)**

MCOM 205 INTRODUCTION TO BROADCASTING - Electronic broadcasting in the production of television and radio is introduced in this course. **(3-0-3)**

MCOM 210 MEDIA WRITING AND EDITING - An introductory media writing course that stresses grammar, sentence structure, vocabulary, and logic. **(3-0-3)**

MCOM 220 COMMUNICATION AND CULTURE – This course focuses on the influence of culture on individual communication, which includes: language, religion, ethnicity, and beliefs. A study of African-American journalists, their struggles, and impact on journalism will be included. **(3-0-3)**

MCOM 252 TELEVISION PRODUCTION - This course is a pre-professional skills and lecture class. It is designed to teach students the basic aspects of video production. The student will learn how to operate television equipment, such as cameras, lighting instruments, and audio equipment and video editors. **Prerequisite: JOUR 200 or permission of the instructor. (3-0-3)**

BUSINESS MANAGEMENT (MGMT)

MGMT 200 INTRODUCTION TO BUSINESS - This is a survey course that introduces students to the world of business. It provides a foundation for the study of other business courses. **(3-0-3)**

MGMT 201 PRINCIPLES OF MANAGEMENT - The course includes the functions and skills that are necessary to provide effective leadership. This course places emphasis on the organizational hierarchy, leadership models, and budgeting techniques. **Prerequisite: MGMT 200 and ENGL 110. (3-0-3)**

MGMT 240 FUNDAMENTALS OF ENTREPRENEURSHIP - This course is designed to teach fundamentals on “How to Start and Run a Business.” It will provide the students with the following: basic skills needed to operate a business; the type of business to choose; the length of time it would take to start a business; getting the business certified as a small business owner; available funding sources, and the type of insurance needed. **(3-0-3)**

MGMT 243 LEGAL ENVIRONMENT OF BUSINESS - This is a survey course that studies the interaction between law and business in the historical political, and ethical environments. This course places emphasis on contracts, torts, and criminal laws as they apply to business organizations. **Prerequisite: MGMT 200*. (3-0-3)**

MGMT 250 PRINCIPLES OF MARKETING - This course is a comparative survey of the major functions of marketing and marketing management. (This course is only offered for the MGMT Certificate Program). **(3-0-3)**

MGMT 260 BUSINESS COMMUNICATIONS - This course will emphasize the development of writing and presentation skills to produce effective business communications. Skill development in planning and conducting business presentations on an individual and/or group basis including communication and media skills will also be addressed. Topic discussion includes leadership, effective participation, and group behavior. Student will use current software (power point presentation, graphics, spreadsheets, and word-processing) to develop business presentations. (This course replaces MGMT 202, effective fall 2006). **(3-0-3)**

MGMT 273 BUSINESS FINANCE - This course emphasizes the role of the financial manager and the goals of maximizing financial wealth of the organization. This course includes topics such as the time value of money, financial ratio analysis, investments portfolio management, working capital management, capital budgeting, risk and investments. **Prerequisite: ACCT 200 or higher; completion of or concurrent enrollment in MATH 135, ECON 202 or ECON 203 *MGMT Certificate Program. (3-0-3).**

MGMT 283 BUSINESS STATISTICS - This course includes the methods and techniques for the collection, analysis, interpretation, and presentation of numerical data. This course places emphasis on measures of central location, dispersion, probability theory, discrete and continuous probability distributions, sampling, and tests of significance, regression, and correlation. *Prerequisite:* Completion of or concurrent enrollment in MATH 135. (3-0-3)

MILITARY SCIENCE (MILS)

MILS 101 INTRODUCTION TO LEADERSHIP - The course introduces the United States Army, including the Army heritage, values, decision making, mission, organization, branches, first aid, rappelling, map reading and land navigation. (1-0-1)

MILS 101L INTRODUCTION TO LEADERSHIP LABORATORY - Provides re-enforcement of MILS 101 lecture through practical exercise. Includes drill and ceremony, time management, first aid, rappelling, physical fitness and survival skills. (1-0-1)

MILS 102 INTRODUCTION TO LEADERSHIP - The course covers leadership principles and application. (1-0-1)

MILS 102L INTRODUCTION TO LEADERSHIP LABORATORY - Provides re-enforcement of MILS 102 lecture through practical exercise; includes drill and ceremony, land navigation, basic rifle marksmanship time management, organization, first aid, rappelling, physical fitness and survival skills. (1-0-1)

MILS 201 FOUNDATIONS OF LEADERSHIP PHASE I - Examines the development of leadership dimensions and the study of land navigation, first aid, military history and small unit tactics. (2-0-1)

MILS 201L LEADERSHIP LABORATORY - A practical laboratory of applied leadership activities include drill and ceremony, land navigation, rappelling, rifle marksmanship, tactics, first aid, water survival, physical conditioning, and communications. (1-0-1)

MILS 202 FOUNDATIONS OF LEADERSHIP PHASE II - Examines the application of leadership dimensions, and the study of land navigation, first aid, military history and small unit tactics. (2-0-1)

MILS 202L LEADERSHIP LABORATORY - Provides a laboratory course to accompany MS 202. A practical laboratory of applied leadership activities include drill and ceremony, land navigation, rappelling, rifle marksmanship, tactics, first aid, water survival, physical conditioning, and communications. (1-0-1)

MILS 203 LEADERSHIP TRAINING - Course offers basic camp during the summer only, six (6) weeks at Fort Knox, Kentucky. Provides students with education and training covered in MILS 101, 102, 201, 202. Qualifies student for enrollment in MILS 301. Non-obligatory. Requires PMS approval. Paid for by ROTC. Student must have a minimum of 54 credit hours. (6-0-1)

MEDICAL LABORATORY TECHICIANS (MLTC)

MLTC 100 PHLEBOTOMY WORKSHOP - This course provides practical instruction and experience in the procurement of blood specimens. This course is designed for allied health majors other than MLT. **(1-0-1)**

MLTC 105 INTRODUCTION TO CLINICAL LABORATORY SCIENCE - This course provides an introduction to the role of the medical laboratory technician as well as the history and purpose of the University, administrative systems, regulations, and use of the library. Emphasis is placed on professional ethics, work ethics, educational requirements, communication skills, career opportunities, computer skills, and special qualities desirable to become professional laboratory practitioners. Included is theory and laboratory methodology for each discipline. **(1-0-1)**

MLTC 239 PARASITOLOGY/MYCOLOGY - This course involves a study of clinically significant microorganisms, with an emphasis on fungal and parasitic organisms and infections. Case studies, patho-physiological states, microbiological diseases, and problem-solving and application of microbiological data used in the identification of unknowns are stressed. **Prerequisite: MLTC 101. (2-1-3)**

MLTC 240 COAGULATION - Emphasis is placed on the study of the formed elements of blood and coagulation with emphasis on case studies, patho-physiological states, hematological diseases, problems-solving of clinical laboratory situations and application of hematological data. **Prerequisite: MLTC 101. (1-1-1)**

MLTC 241 CLINICAL HEMATOLOGY - This course involves normal and abnormal applied hematology and coagulation. Emphasis is placed on the study of the formed elements of blood and coagulation, precursors in the bone marrow, chemical constituents of plasma and serum linked to blood cell structure and function, and function of platelets and proteins involved in blood coagulation. **Prerequisite: MLTC 101. (2-1-3)**

MLTC 242 CLINICAL IMMUNOLOGY/SEROLOGY - This course involves an introduction to the immune system with emphasis on antigen-antibody reactions in vitro and the principles of immune-diagnostic procedures performed in the Serology department. In involves lecture and student laboratories. **Prerequisite: MLTC 101. (1-1-2)**

MLTC 243 CLINICAL IMMUNOHEMATOLOGY - This course involves theory and student laboratory analysis in blood banking, with emphasis placed on blood groups and their application. ABO typing and antibody screening techniques are stressed. Emphasis is placed on professional ethics, work ethics, educational requirements, communication. **Prerequisite: MLTC 101. (2-1-3)**

MLTC 244 CLINICAL MICROBIOLOGY - This course includes the study of clinically significant pathogenic bacteria and viruses – diagnostic techniques, sterility, processing of specimens, selection of media, reagents and stains, and identification of microorganisms according to the morphological and biochemical reactions. **Prerequisite: MLTC 101. (2-1-3)**

MLTC 245 CLINICAL URINALYSIS - This course involves theory and clinical application of the constituents of urine and other body fluids. Emphasis is placed on the physiology and clinical diagnosis of urine and other body fluids in health and disease. **Prerequisite: MLTC 101. (1-1-2)**

MLTC 246 CLINICAL CHEMISTRY - This course involves theory and clinical application of chemical constituents in various body fluids. Emphasis is placed on the physiological role of each chemical analyte. *Prerequisite:* MLTC 101. (2-1-3)

MLTC 247 CLINICAL HEMATOLOGY PRACTICUM - This course provides practical experience in the clinical laboratory of a hospital affiliate. Emphasis is placed on developing and applying knowledge and technical skills necessary to perform accurate and precise laboratory determinations in Hematology. (0-24-1)

MLTC 248 CLINICAL IMMUNOHEMATOLOGY PRACTICUM - This course provides practical experience in the clinical laboratory of a hospital affiliate. Emphasis is placed on developing and applying knowledge and technical skills necessary to perform accurate and precise laboratory determinations in the Serology Department. (0-24-1)

MLTC 249 CLINICAL PHLEBOTOMY PRACTICUM - This course provides practical experience in the clinical laboratory of a hospital affiliate. Emphasis is placed on developing and applying knowledge and technical skills necessary in the procurement of blood for laboratory analysis. (0-12-1)

MLTC 250 CLINICAL IMMUNOHEMATOLOGY PRACTICUM - This course provides practical experience in the clinical laboratory of a hospital affiliate. Emphasis is placed on developing and applying knowledge and technical skills in the study of blood groups and their applications. (0-24-1)

MLTC 251 CLINICAL MICROBIOLOGY PRACTICUM - This course provides practical experience in the clinical laboratory of a hospital affiliate. Emphasis is placed on developing and applying knowledge and technical skills in routine techniques, analysis, and interpretation of clinical specimens in the Microbiology/Parasitology/Mycology departments. (0-24-1)

MLTC 252 CLINICAL CHEMISTRY PRACTICUM - This course provides practical experiences in the clinical laboratory of a hospital affiliate. Emphasis is placed on developing and applying knowledge and skills in routine techniques, analysis and interpretation of clinical specimens in the Clinical Chemistry Department. (0-24-1)

MLTC 253 CLINICAL URINALYSIS PRACTICUM - This course provides practical experience in the clinical laboratory of a hospital affiliate. Emphasis is placed on developing and applying knowledge and technical skills in the Urinalysis Department. (0-24-1)

MLTC 270 CLINICAL LABORATORY SCIENCE REVIEW I - This course consists of board review of all didactic courses of medical laboratory technology with the application of all material, problem-solving and case studies. Clinical Practicum experiences are correlated with didactic knowledge gained. Students must be successful (“C” or better) on a comprehensive exit exam given at the terminus of the course which determines the student’s ability to exit (graduate) from the program. (4-0-4)

MLTC 271 CLINICAL LABORATORY SCIENCE REVIEW II -This course consists of a continuation of board review of all didactic courses of medical laboratory technology, with the application of material, problem solving and case studies. Clinical Practicum experiences are correlated with didactic knowledge gained. Students must be successful (“C” or better) on a comprehensive exit exam given at the terminus of the course and determines the student’s ability to exit (graduate) from the program. **(3-0-3)**

MUSIC(MUSC)

MUSC 102 HARMONY I - This course is a basic musicianship course in written keyboard harmony and analysis. Part writing and small composition skills are emphasized. **(2-1-3)**

MUSC 103 HARMONY II - This course is a continuation of MUSC 102. **Prerequisite:** MUSC 102. **(2-1-3)**

MUSC 120 UNIVERSITY GOSPEL CHORALE - (A Non-Transfer Credit Course) University Gospel Chorale is a performing unit, specializing in the genre of gospel music. Students will experience various musical styles ranging from traditional gospel to Negro Spirituals. Lectures will include discussions on the importance of proper breathing techniques, vocal training, and the teaching of musical pieces. **(2-0-2)**

MUSC 200 ENJOYMENT OF MUSIC - This is a research course with a humanities approach designed to acquaint the students with various styles of music and the various composers who created the forms that dictated cultures and influenced political philosophies of the worlds in which they lived. **(2-1-3)**

MUSC 224 UNIVERSITY CHOIR I - Choral Union, Female and Male Glee Clubs, and vocal ensembles are designed to entertain all students with interest in performing various vocal ensemble styles such as; classical, traditional gospel, pop and jazz literature. Vocal ensemble skills are taught along with cultural awareness. Audition is required. **(1-0-1)**

MUSC 225 UNIVERSITY CHOIR II - This is a second semester vocal ensemble course continuing MUSC 224. Audition and teacher approval are required. **Prerequisite:** MUSC 224. **(1-0-1)**

MUSIC TECHNOLOGY (MUTG)

MUTG 101 FUNDAMENTALS OF MUSIC - An introduction to reading and writing music. Topics include key and time signatures, song form, melody, chords, and number system. **(3-0-3)**

MUTG 130 INTRODUCTION TO STUDIO RECORDING - An introduction to the recording studio. Topics include microphones, analog and digital recorders, the recording console, signal processing, and recording techniques. **(2-2-2)**

MUTG 140 INTRODUCTION TO MIDI - An introduction to MIDI (Musical Instrument Digital Interface) concepts and techniques. Topics include keyboard programming, sound modules, sequencing, and electronic music production. **(2-2-2)**

MUTG 150 MUSIC WORKSTATION - An introduction to the varied aspects of the music workstation. Students are given hands-on experience with the practical aspects of the varied components of the music workstation. **(2-2-3)**

MUTG 170 VIRTUAL STUDIO AND PLUG-INS - An introduction to, and hands-on experience with, the virtual music studio and associated plug-ins. Students are trained to simulate activities, which are expected in the music studio. **(2-2-3)**

MUTG 208 SONGWRITING - An introduction to basic songwriting. Topics include lyric and melody construction, working with music publishers, and performance rights organizations. Professionally written songs and students' songs are analyzed in class. **(3-0-3)**

MUTG 210 ADVANCED MIDI - A continuation of MUSC 140. Topics include computer based sequencing, editing, and advanced electronic music production techniques. **(2-2-2)**

MUTG 220 DESKTOP DIGITAL AUDIO - An introduction to the use of computers in recording, editing, and mixing digital audio. Topics include software based music production, sound design, looping, and mastering. **(2-2-2)**

MUTG 230 ADVANCED STUDIO RECORDING - A continuation of MUSC 130. Topics include digital audio, tape machine alignment, mixing, stereo microphone technique, and the creative use of signal processors. **(2-2-2)**

MUTG 255 INTERNET FOR MUSICIANS - An introduction to the internet as a music promotion resource. Topics include music marketing, web design, and independent label and artist promotion. **(2-2-3)**

MUTG 260 STUDIO MAINTENANCE - An introduction to studio maintenance. Topics include basic electronics, troubleshooting equipment problems, soldering techniques, and the use of test equipment. **(2-2-2)**

MUTG 261 INTRODUCTION TO PRO TOOLS I - Pro Tools I focuses on the foundational skills needed to learn and function within the Pro Tools environment at a basic level. Topics include system capabilities (record, edit, mix, process, and audio delivery), understanding the Pro Tools file system (session documents, audio files, audio regions), navigation and display basics, recording modes and techniques. Other topics include setting levels, selection techniques for audio regions (precursor to basic editing), basic editing and mixing, importing audio files, using fades, using AudioSuite (file-based) plug-ins, introduction to MIDI. **(3-0-3)**

MUTG 262 ESSENTIALS OF PRO TOOLS II - The PT II course builds on knowledge and techniques acquired in the PT I. Topics included in PT I receive expanded attention, with instructor demonstrations and student exercises. Individuals who complete PT II will be well-prepared to work on their own projects in Pro Tools. **(3-0-3)**

NURSING (NURC, NURS)

NURC 100 NURSING ASSISTANT - This course provides students with an overview of the basic care needs of a patient/client population. Students will acquire knowledge and competencies in the provision of the activities of daily living (ADLs), bedside care, and basic nursing procedures. This course is taught in a 7½ week session. **Pre-requisitions: None. (4-0-4)**

NURS 104 THE ART OF NURSING PRACTICE - The purpose of this course is to provide students with a basic knowledge of the nursing profession. It is designed to assist students in developing learning strategies to successfully navigate educational, professional, career and personal goals. Students will gain insight into what it means to be a professional nurse, to appreciate the history of nursing, to understand and appreciate nursing's values, standards, and ethics; to recognize social and economic factors that influence professional practice; and to appreciate the need for lifelong learning. *Prerequisites:* None *Co-requisites:* CHEM130, BIOL200, BIOL 220, ENG. 110 and MATH 133. (2-0-2)

NURS 125 BASIC PRINCIPLES OF NURSING - This course introduces basic concepts, theories, and principles inherent in the roles and competencies of the beginning nurse practitioner and applies this knowledge to practice. Identified basic human needs based on King's General System's Framework along with the nursing process and basic nursing skills are presented and used to guide nursing practice in simulated and clinical settings. Students will also be introduced to the history of Southern University as well as its purpose, administrative systems, policies and regulation. *Prerequisites:* CHEM 129, ENGL 110, MATH 133, BIOL 200, BIOL 220 and admission into the Associate of Science Nursing Program. (4-2-6)

NURS 135 ROLE TRANSITION TO PROFESSIONAL NURSING - This course is designed to assist the Licensed Practical Nurse (LPN) to transition to the role of an Associate Degree prepared Registered Nurse. This course builds on the foundational knowledge from the LPN curriculum while incorporating clinical skills (laboratory simulation), dosage calculations, nursing process, critical thinking, nursing care planning, documentation, physical assessment skills and concepts of nursing. It provides the foundation for utilization of the nursing process. Emphasis will be placed on the transition process while incorporating previously learned skills in the area of medical surgical and mental health nursing. Selected skills are performed in the simulated clinical lab. *Prerequisites:* ENGL 110, ENGL 111, MATH 133, MATH 200, BIOL 200, BIOL 220, BIOL 222, CHEM 129, Psychology 250 and admission into the Associate Science Nursing Program. (4-0-4).

NURS 140 CONCEPTS & PROCESSES OF NURSING I - This course explores the professional role through a comprehensive and systematic assessment, using the nursing process and King's General Systems Framework. There is emphasis on physiological assessment and the further development of assessment skill. Focus is on the adaptive and maladaptive response to common stressors across the lifespan. This course is taught in a 7 ½ week session. *Prerequisites:* NURS 125, MATH 200, BIOL 222, ENGL 111. (2-2-4)

NURS 160 PSYCHIATRIC MENTAL HEALTH NURSING - Particular attention focuses on the adaptive and maladaptive responses to internal and external stressors across the lifespan. Principles and concepts of mental health, psychopathology, and treatment modalities relating to the nursing care of clients and their families will be explored. This course is taught in a 7½ week session. *Prerequisites:* MATH 200, BIOL 222, ENGL 111, NURS 125. (2-2-4)

NURS 200 PRINCIPLES OF PHARMACOLOGY - This course provides an introduction to pharmacotherapeutics, medication administration, major drug classifications, and the implications of medication administration for nursing care. *Prerequisites:* NURS 125 Basic Principles of Nursing. (2-0-2)

NURS 220 NURSING CARE OF THE CHILD - Facilitates learning about caring for children and their families. Emphasis will be placed on principles of growth and development, identification of stressors and promotion of health in children and their families. This course is taught in a 7½ week session. *Prerequisites:* NURS 140, NURS 160, PSYC 250. (2-2-4)

NURS 225 NURSING CARE OF THE CHILDBEARING FAMILY - Focus will be on the processes of pregnancy, labor, delivery, the post partal period, and the neonate. Emphasis will be on the nurse's role in assisting women and their families to adapt to stress associated with childbearing. This course is taught in a 7½ week session. *Prerequisites:* NURS 140, NURS 160, PSYC 250. (2-2-4)

NURS 230 ISSUES AND TRENDS IN NURSING PRACTICE - This course reviews nursing history and presents current issues, problems, and emerging trends. Legal and ethical issues as they relate to the practice of nursing, professional organizations, educational preparation and credentials for health care providers, role transition from student to practitioner, and the political process will be explored. Management styles and skills in the delivery care system will also be presented. *Prerequisites:* NURS 220, NURS 225, NURS 210, SPCH ELECTIVE. (2-0-2)

NURS 250 CONCEPTS & PROCESSES OF NURSING II – This course will further explore the professional role of nursing during episodic care in the management of adults related to the roles of the nurse as provider, coordinator of care, and member of the healthcare team. The practicum provides students with opportunities to utilize the nursing process in the role of leadership and management in the acute care setting. (6-3-9)

ADMINISTRATIVE TECHNOLOGY SPECIALIST (OSBT)

OSBT 115 DOCUMENT FORMATTING AND PRODUCTION – This course focuses on improving keyboarding techniques using the touch method and on production of documents using word processing functions. Prerequisites: Prior to enrollment in this course, students will be required to key straight copy material at a minimum of 35 GWPM on a 5 minute timed writing, with a maximum of 1 error per minute or successfully complete Introduction to Keyboarding. (3-0-3)

OSBT 120 KEYBOARDING SKILLBUILDING – A course that further develops keyboard techniques emphasizing speed and accuracy. (3-0-3)

OSBT 125 – PERSONAL AND PROFESSIONAL DEVELOPMENT – a course that develops an awareness of interpersonal skills essential for job success. (3-0-3)

OSBT 130 RECORDS & DATABASE MANAGEMENT – This course focuses on the systems approach to manage recorded information in any form. Emphasis is placed on the three categories into which records generally fall – paper, image, and digital and the treatment of these categories in proper management, storage, and retrieval. A course that applies database concepts for designing and manipulating data files and formatting output as complex documents and reports. *Prerequisite:* CMPS 215 Microcomputer Business Applications. (3-0-3)

OSBT 130 MECHANICS OF COMMUNICATION – A course designed to develop the basic English competencies necessary for success in business world. A study of the parts of speech, sentence structure, sentence types, capitalization, punctuation, and spelling is emphasized. (3-0-3)

OSBT 140 BUSINESS MATHEMATICS – A course that is designed to develop competency in mathematics for business use. Ten-key touch method on the electronic desktop calculator is stressed. **(3-0-3)**

OSBT 145 MACHINE TRANSCRIPTION – A course designed to teach transcription of a wide variety of business communication from machine dictation. Prerequisites: cmpts215 microcomputer business applications. **(3-0-3)**

OSBT 150 DESKTOP PUBLISHING – A course that presents graphic design techniques, principles of page layout and design, and electronic publishing terminology and applications to create a variety of documents such as flyers, brochures, newsletters and business cards.

Prerequisite: CMPS215 Microcomputer Business Applications. (3-0-3)

PHLEBOTOMY (PHLE)

PHLE 101 INTRODUCTION TO PHLEBOTOMY - This course is designed to provide practical instruction in the proper techniques used in collecting blood and body fluid specimens for laboratory analysis. It includes specimen processing, infection control, laboratory safety, quality control, special collection techniques, and quality assurance procedures. **(3-1-3)**

PHLE 210 CLINICAL PRACTICUM - This course provides a rotation through the Phlebotomy department of the clinical laboratory. The rotation involves patient preparation, selection and preparation of puncture sites, collection of specimens, maintaining equipment, post-collection client care, and specimen processing. **Prerequisites: PHLE 101, and acceptance into the Phlebotomy Program. (2-24-9)**

PHYSICS (PHYS)

PHYS 100 PHYSICAL SCIENCE I - [LCCN: CPHY 1023, PHYSICAL SCIENCE I] - This course is a survey of concepts in physics and physical sciences with emphasis on methods of science and concepts relating to mechanics, states of matter, waves, heat, electricity, light, atomic structure and basic chemistry. Topics are developed with a minimum of mathematical presentation. **Prerequisite: MATH 133 or higher. (3-0-3)**

PHYS 101 PHYSICAL SCIENCE II - [LCCN: CPHY 1033, PHYSICAL SCIENCE II] - This course presents applications of concepts learned in Physical Science I, which may include physics, chemistry, geology, astronomy, oceanography, etc. Emphasis is on chemical reactions, acids, bases and salts, chemistry of life, rock, geological eras, erosion and sedimentation, earth processes (above and below the surface), and the solar system. Topics are developed with a minimum of mathematical presentation. Open to students who are enrolled in or have college credit in Physics. **Prerequisite: MATH 133 or higher. (3-0-3)**

PHYS 105 TECHNICAL PHYSICS - Introduction to basic principles of physics, including properties of matter, mechanics, vibration, wave motion, heat, sound, electricity, magnetism and optics. Includes laboratory experience involving students in the active exploration of topics introduced in lecture. **(3-0-3)**

PHYS 120 METRICATION - This course is an introduction to the metric system. History of measurements, English-metric units conversion techniques, standard international units and actual measurements of basic observations in the metric system, are included. **(2-0-2)**

PHYS 221 GENERAL PHYSICS LECTURE & LABORATORY I - [LCCN: CPHY 2114, PHYSICS I (ALGEBRA/TRIG BASED) LEC + LAB] - Algebra/Trig-based physics: vectors, kinematics, Newton's Laws, momentum, work & energy, rotations, oscillations, elasticity & equilibrium; thermodynamics. The course material is presented in a combined lecture and laboratory format. (Not intended for engineering majors.). **Prerequisites: MATH 140 and MATH 264. (3-4-5)**

PHYS 222 GENERAL PHYSICS LECTURE & LABORATORY II - [LCCN: CPHY 2124, PHYSICS II (ALGEBRA/TRIG BASED) LEC + LAB] - Gravitational fields; waves; electrostatics; circuits; magnetism; and light. The course material is presented in a combined lecture and laboratory format. (not intended for engineering majors.) **Prerequisite: PHYS 221, Math 140 and Math 264. (3-4-5)**

POLITICAL SCIENCE (POLI)

POLI 195 INTRODUCTION TO POLITICAL SCIENCE - This course is an exploratory course designed to help students gain insight and knowledge into the various approaches to studying politics. **(3-0-3)**

POLI 200 AMERICAN GOVERNMENT - Emphasis in this course is placed on what government is, how it operates with respect to individuals and groups, the development of how the constitutional system is developed, and the citizens' roles as voters. **(3-0-3)**

POLI 202 INTERNATIONAL RELATIONS - Strategic political, legal, economic and ethnic factors affecting relations among nations will be surveyed. **(3-0-3)**

POLI 210 STATE AND LOCAL GOVERNMENT AND ADMINISTRATION - The constitutional and administrative relationships between state and nation and among states; the organization and operations of the executive, legislative, and judicial branches at the state and local levels; political institutions and processes will be covered. **(3-0-3)**

POLI 270 CURRENT ISSUES - Major current issues, both foreign and domestic, will be analyzed and interpreted. **(3-0-3)**

POLI 272 LOUISIANA POLITICS - Louisiana Politics provides historical insight into the structure of Louisiana's government. Emphasis is on the relationship between the government of Louisiana and political organization in the state. **(3-0-3)**

POLYSOMNOGRAPHIC TECHNOLOGY (PSGT)

PSGT 120 POLYSOMNOGRAPHY I - This course is designed to provide both didactic and laboratory training for entry-level personnel in the basics of polysomnography technology. Students will become familiar with terminology instrumentation setup and calibration, patient safety and infection control, recording and monitoring techniques, documentation, professional issues, and

patient-technologist interactions related to polysomnography technology. Requires departmental approval. **(3-1-4)**

PSGT 125 SLEEP DISORDERS - This course will present disorders that affect sleep including insomnias, circadian rhythm disorders, narcolepsy, sleep disordered breathing, movement and neuromuscular disorders and medical and psychiatric disorders. Requires departmental approval. **(3-0-3)**

PSGT 130 NEUROANATOMY AND PHYSIOLOGY - This course is a study of the anatomy of the human central nervous system. The student will also be introduced to cardiopulmonary structures and function as well as ECG interpretation. Requires departmental approval. **(3-0-3)**

PSGT 135 NEUROPHYSIOLOGY OF SLEEP - This course is an introduction to the history of sleep medicine and the different stages of sleep. Emphasis is on associated wave patterns and collection and utilization of sleep histories. Requires departmental approval. **(3-0-3)**

PSGT 140 RESPIRATORY CARE PROCEDURES - This course is an in-depth study of basic respiratory concepts, theories and techniques needed in the education of the polysomnography student. Application of these procedures are instructed and performed in the laboratory and in the clinical area under supervision. Requires departmental approval. **(3-0-3)**

PSGT 145 POLYSOMNOGRAPHY CLINICAL I - This course offers a health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. **Prerequisite: PSGT 120. (0-16-4)**

PSGT 150 SLEEP SCORING & STAGING - This course provides the student with the skill to score and stage sleep studies; prepare comprehensive sleep records, identify effects of medication, age, gender, sleep/wake schedules and sleep habits and other relevant factors. Evaluate pertinent parameters in sleep disorder studies. **Prerequisite: PSGT 120. (3-0-3)**

PSGT 155 POLYSOMNOGRAPHY CLINICAL II - This course provides the student with patient contact in a sleep lab. The student will have the opportunity to observe, perform (under supervision), and evaluate sleep studies. (24 clinical hours/week) **Prerequisite: PSGT 145. (0-24-6)**

PSGT 160 POLYSOMNOGRAPHY II - This course is a lecture and lab, designed to develop skills needed for scoring and staging. Consideration of medication effects, age, gender, sleep/wake schedules, changes in sleep habits, and other pertinent factors. Students will evaluate parameters such as total record time, total sleep time, sleep efficiency, total wake time, wake after sleep onset, wake after sleep offset, sleep latency, REM latency, stage 1-3, REM sleep, awakenings arousals. EEG, sleep disordered breathing, leg movements, and cardiac patterns. **Prerequisite: PSGT 120. (3-1-3)**

PSGT 200 SPECIAL TOPICS IN POLYSOMNOGRAPHY - This course addresses recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the field of polysomnography and relevant to the professional development of the students. **Prerequisite: PSGT 160. (3-0-1)**

PSGT 205 INFANT & PEDIATRIC POLYSOMNOGRAPHY - This course is an introduction to the sleep patterns of the infant and pediatric population. The student will be provided with opportunities to perform a pediatric study. **Prerequisite: PSGT 160. (2-0-2)**

PSGT 210 POLYSOMNOGRAPHY CLINICAL III - This course provides the student with patient contact in a sleep lab. The student will have the opportunity to observe, perform (under supervision), and evaluate sleep studies. (24 clinical hours/week). **Prerequisite: PSGT 155. (0-24-6)**

PSYCHOLOGY (PSYC)

PSYC 210 GENERAL PSYCHOLOGY - This course is designed to introduce students to principles of psychology with special emphasis on description, prediction, control and explanation of human behavior. **(3-0-3)**

PSYC 220 EDUCATIONAL PSYCHOLOGY - The focus of this course will be on variables that influence learning. Students will be exposed to physical growth and development, fundamentals of growth and development as well as cognitive growth. **Prerequisite: PSYC 210. (3-0-3)**

PSYC 230 CHILD PSYCHOLOGY - This child psychology course examines the physical, motor, emotional and social development of children. This course includes research into child development concepts, such as nature versus nurture and plasticity. Students learn through case studies how these concepts affect development, analyzing which ones have the greatest influence in early childhood and in later years. **(3-0-3)**

PSYC 231 SOCIAL PSYCHOLOGY - Students will study the basic principles of social behavior, biological and social foundations of behavior. Emphasis will also be placed on motivations and incentives toward learning, socialization processes, social aspects of personality, adjustment in social relations, group and institutional control behavior, social interaction in leadership, crowd behavior and attitudes and adjustment. **(3-0-3)**

PSYC 240 ADOLESCENT PSYCHOLOGY - The major focus of this course will center on physical, mental, social emotional growth, and development of adolescents. Attention will also be given to problems they experience in adjusting to the home, school and community, with special emphases on the contemporary environment. **(3-0-3)**

PSYC 250 DEVELOPMENTAL PSYCHOLOGY - Students will be exposed to the study of human development, the study of how and why people change as well as how and why they remain the same. In this course students will focus on the developmental studies of all periods of life, from conception to death and stages of life, from simple growth to radical transformations, in all areas of development. **Prerequisite: PSYC 210. (3-0-3)**

PSYC 268 ABNORMAL PSYCHOLOGY - Both abnormal as well as normal behavior will be studied. It also deals with the etiology, diagnosis, treatment and prognosis of personality maladjustment and mental disorders. Special focuses will be placed on contemporary influences and their effect on mental disorders. **(3-0-3)**

RADIOLOGIC TECHNOLOGY (RADT)

RADT 103 INTRO TO RADIOLOGIC TECH I - This course will provide the student with an introduction to the field of radiography. The student will be introduced to professional ethics, patient communication skills, medical terminology, and basic patient care techniques. Special emphasis will be placed on the dynamics of learning, critical thinking skills, and in developing techniques and attitudes needed to be successful in the clinical program. **(3-0-2)**

RADT 107 CLINICAL RADIOGRAPHY I - This course will provide the student with a six-week orientation in program policy and procedures, professional ethics, body mechanics, venipuncture and patient care. Special instruction is given in basic radiation protection and radiographic exposure procedures prior to entering clinical. This course will allow the integration of the clinical experience with didactic and psychomotor skills taught in RADT 101 and 105. Clinical competencies are to be successfully completed on the chest and extremities. **Prerequisite:** BIOL 220, BIOL 222, RADT 103, and clinical acceptance. **(2-24-3)**

RADT 112 RADIOGRAPHIC PROCEDURES AND POSITIONING I - This course introduces the student to the anatomical relationship and skills involved in diagnostic radiographic positioning of the chest, abdomen, upper and lower extremities, pelvic and shoulder girdles. **Prerequisite:** RADT 103, clinical acceptance. **Co-requisites:** RADT 107 & 113. **(3-0-2)**.

RADT 113 RADIOLOGIC PROCEDURES AND POSITIONING I LAB - Radiographic Procedures and Positioning I accompanies this course. It provides the student with hands-on experience, independent judgment, creativity, and problem solving in the clinical energized laboratory. The student will position the chest, abdomen, upper and lower extremities, shoulder and pelvic girdles. A synopsis of radiation protection, digital imaging, and exposure is introduced prior to entering the clinical setting. **Prerequisite:** RADT 103, clinical acceptance. **(0-2-1)**

RADT 117 CLINICAL RADIOGRAPHY II - The course is a continuation of Clinical I. The student is provided with clinical experience involving radiographic positioning of the upper and lower extremities, shoulder vertebral column and pelvic girdles. Further instructions provide the student with an opportunity to obtain experience with IVP and fluoroscopic examinations. Clinical competencies are to be successfully completed in the areas mentioned above. **Prerequisites:** RADT 103, RADT 107, RADT 112 and RADT 113. **(0-24-3)**

RADT 118 RADIOGRAPHY EXPOSURE I - The course is designed to create a foundation for understanding the principles of radiographic technique and quality. Emphasis is on radiographic-image quality through presentation of prime exposure factors, their interrelationships, solving technical problems, and making adjustments to correct those problems. Basis fundamentals concerned with the production, analysis, and recording of radiographic images are included in this course. Subject matter will include mas, kVp, distance relations, geometric image formation, grids, beam limiting devices, filtration, sensitometry, computers, digital image acquisition and processing, technique systems including automatic exposure control (AEC) and technique charts are also discussed. An introduction of digital technology will be covered. **Prerequisites:** RADT 112, RADT 113. **Co-requisite:** RADT 119. **Course Rationale:** Required of all students enrolled in the Radiologic Technology Program. **(2-0-2)**

RADT 119 RADIOGRAPHY EXPOSURE I LAB - This course is accompanied by Radiologic Imaging Principles 118. Factors which govern and influence the production of a radiographic image are presented and experiments conducted to reinforce the key concepts. The course incorporates the following aspects: creating the radiographic image, selecting optimal technical factors, determining/maintaining image diagnostic value, understanding and utilizing alternative exposure systems and methods. Special emphasis is placed on critical thinking, problem-solving techniques and radiographic image processing. Student's written communications skills as assessed through written laboratory reports. **Prerequisites:** RADT 103, RADT 107, RADT 112 and RADT 113. **Co-requisite:** RADT 118. **Course Rationale:** Required of all students enrolled in the Radiologic Technology Program. (0-1-1)

RADT 122 RADIOGRAPHIC PROCEDURES AND POSITIONING II - This course introduces the students to the technical skills involved in the anatomy, procedures and positioning of the pelvis, vertebral column, bony thorax, urinary and gastro-intestinal fluoroscopic studies. **Prerequisites:** RADT 112 and RADT 113. **Co-requisites:** RADT 117 and RADT 123. (3-0-2)

RADT 123 RADIOGRAPHIC PROCEDURES AND POSITIONING II - This course accompanies RADT 120, Radiographic Procedures and Positioning II, and is designed to expand the students' positioning skills, independent judgment and creativity. Using hands-on instruction in an energized laboratory, students will demonstrate proficiency in positioning the anatomic structures of the pelvis, vertebral column, bony thorax and gastro-intestinal studies, and urinary system. **Prerequisites:** RADT 112 and RADT 113. **Co-requisites:** RADT 117 and RADT 122. (0-1-1)

RADT 147 CLINICAL RADIOGRAPHY III - The student is provided with clinical experience involving radiographic positioning of the upper and lower extremities, shoulder and pelvic girdles, IVP examinations and fluoroscopic examinations. Further instructions provide the student with the opportunity to obtain experience with procedures involving the skull, vertebral column and the bony thorax. Clinical competencies are to be successfully completed in the areas mentioned above. **Prerequisites:** RADT 117, RADT 122 and RADT 123. (0-32-3)

RADT 200 RADIOLOGIC PHYSICS - This course introduces the student to the principles of radiation physics. Special emphasis is placed on the production of x-ray and use of electromagnetic radiation along with a review of fundamentals of mathematics, units of measurement as they relate to radiologic physics and medical imaging. The structure of matter, basic electricity, magnetism, electrical physics, radiation physics, x-ray production, target interaction, x-ray beam, x-ray generator, transformers, and rectification system is discussed along with an introduction to advanced equipment operation and quality control. **Prerequisites:** RADT 118, RADT 110 and RADT 147. **Course Rationale:** Required of all students enrolled in the Radiologic Technology Program. (3-0-2)

RADT 207 CLINICAL RADIOGRAPHY IV - This course is a continuation of Clinical III. The student is provided with clinical experience involving radiographic positioning of the upper and lower extremities, shoulder and pelvic girdles, fluoroscopic examinations, surgical and trauma procedures, skull, vertebral column and the bony thorax. The student will also be provided with clinical experience in the specialty areas. Clinical competencies and evaluations are to be successfully completed in the aforementioned areas. **Prerequisites:** RADT 118, RADT 119, RADT 117, RADT 122 and RADT 123. (0-24-3)

RADT 215 EXPOSURE II - This is a continuation course of material taught RADT 118. The basic principles of computer technology, terminology and application in radiology are taught. In addition, it provides knowledge of equipment routinely utilized to produce diagnostic images utilizing the proper selection of imaging factors such as exam menu choices, technical factors, imaging plate size, grids, and markers as are vendor-driven exposure indicators in cassette-based and cassette less digital imaging. Basic computed tomography equipment is introduced to give the student basic knowledge of cross-section anatomy and how it relates to computerized tomography and other diagnostic procedures requiring a cross section anatomy approach. *Prerequisite:* RADT 118, RADT 119 and RADT 200. (2-0-2)

RADT 220 RADIATION BIOLOGY AND PROTECTION - This course explores the effects of ionizing radiation on the body, the physical and biological factors affecting radio sensitivity of cells and radiation dose-response relations, and photon interactions with matter. The course will also provide information regarding minimizing patient exposure, personal protection and information regarding radiation exposure and monitoring. *Prerequisites:* RADT 200 and RADT 215. (2-0-2)

RADT 232 RADIOLOGIC PROCEDURES AND POSITIONING III - This course introduces the student into the anatomical relationship and skills involved studies of cranium, facial bones, special imaging procedures and an introduction of computer tomography. Students are given an opportunity to re-examine topics previously discussed in Radiologic Procedures and Positioning II. *Prerequisites:* RADT 118, RADT 119, RADT 117, RADT 122, RADT 123. *Co-requisite:* RADT 233. (3-0-2)

RADT 233 RADIOLOGIC PROCEDURES AND POSITIONING LAB III - This course accompanies RADT 130, Radiologic Procedures and Positioning III. It is designed to enhance the student's creativity, positioning, and critical thinking skills, by allowing hands-on experience in an energized lab. The student will demonstrate proficiency in positioning the anatomic structures of cranium, facial bones, and special radiographic procedures. *Prerequisites:* RADT 118, RADT 119, RADT 117, RADT 122, RADT 123. *Co-requisite:* RADT 232. (0-1-1)

RADT 235 RADIOGRAPHIC EQUIPMENT OPERATIONS AND QUALITY CONTROL II - This course provides the student with a thorough understanding of radiographic imaging equipment used in fixed, mobile, or fluoroscopic equipment and the evaluation of these systems through systematic quality control testing. Topics for discussion include but are not limited to components of image intensifiers and fluoroscopic equipment, mobile radiographic equipment, components of digital imaging, types of radiographic units, accessories and quality control measures. *Prerequisite:* RADT 200 and RADT 228. (3-0-2)

RADT 237 CLINICAL RADIOGRAPHY V - This course is a continuation of Clinical IV. The student is provided with clinical experience involving radiographic positioning of the upper and lower extremities, shoulder and pelvic girdles, biliary tract, fluoroscopic examinations, skull, vertebral column and experience in the specialty areas such as mammography, ultrasonography, computed tomography, nuclear medicine, radiation therapy and special procedures. Clinical competencies are to be successfully completed in the areas mentioned above. This course also introduces students to basic computer operations. Computer application in the radiologic sciences related to capture, display, storage and distribution. *Prerequisite:* RADT 207. (0-24-3)

RADT 244 RADIOGRAPHIC PATHOLOGY AND CRITIQUE - In this course, the student will evaluate imaging for adequate positioning skills, proper radiographic technique, film identification and diagnostic quality. Emphasis is placed on basic concepts concerning medical and surgical diseases and their relationship to radiologic technology. ***Prerequisite:*** RADT 215 and RADT 232. (2-0-2)

RADT 255 RADIOGRAPHY SEMINAR I - This course will focus on developing the professionalism that should be displayed by radiographers. Special emphasis will be placed on test-taking skills and preparation for final competency testing. ***Prerequisite:*** RADT 200, RADT 207, RADT 232 and RADT 233. (4-0-2)

RADT 257 CLINICAL RADIOGRAPHY VI - This course is a continuation of Clinical V. The student is provided with clinical experience involving radiographic positioning of the upper and lower extremities, shoulder and pelvic girdles, biliary tract, fluoroscopic examinations, skull, vertebral column and the bony thorax. The student will also be provided with clinical experience in the specialty areas. Final clinical competencies are to be successfully completed from the ARRT competency list. ***Prerequisite:*** RADT 237. (0-24-1)

RADT 260 RADIOGRAPHY SEMINAR II - This is an advanced study which integrates clinical and didactic instruction in preparation for American Registry Radiologic Technology national examination. The student must complete mock exam for registry eligibility. ***Prerequisite:*** RADT 255. (12-0-2)

READING (READ)

READ 093 FRESHMAN READING - This course is designed for students who need practice in basic word recognition, vocabulary and comprehensive skills. Instruction is also given in critical reading and thinking skills. ***(This course may not be counted toward fulfillment of degree requirements.)*** (3-2-3)

READ 094 FRESHMAN READING - Critical reading and thinking skills and reading rate are emphasized in this course which is designed to improve students' reading speed and vocabulary development. ***(This course may not be counted toward fulfillment of degree requirements.)*** (3-0-3)

RESPIRATORY THERAPY (RESP)

RESP 103 CARDIOPULMONARY PHYSIOLOGY – This course is a review of cardiopulmonary systems with emphasis on the anatomy and physiology of the heart and lungs. Clinical implications are discussed to gain an understanding of the normal functions of the heart and lungs. (2-1-2)

RESP 104 FUNDAMENTALS OF RESPIRATORY THERAPY - This course is an introduction to the basic therapeutic modalities used in respiratory care to include; medical gas delivery, humidity and aerosol therapy, respiratory pharmacology, bronchial hygiene therapy, lung expansion therapy and emergency life support. Lectures, lab demonstrations and experimentation are integrated with clinical practice. (3-1-4)

RESP 109 CLINICAL APPLICATIONS AND PROCEDURES I - This course is an introduction to general floor care in the clinical field. It places emphasis upon helping the student develop **basic skills** in using respiratory care equipment and to understand the function, and application of equipment. Clinical experiences should also include administering small volume nebulizers, chest physiotherapy, oxygen therapy, aerosol and humidity, and patient assessment. **(0-16-3)**

RESP 119 PHARMACOLOGY - This course is an introduction to the pharmacological agents used in respiratory care. This course prepares and aides in the student's understanding and delivery of various pharmacological agents employed in respiratory therapy. **(2-0-2)**

RESP 121 CRITICAL CARE CONCEPTS I - This course is a lecture/laboratory course that prepares the student to work with ventilator patients in the critical care units. Content includes adult mechanical ventilators, advanced airway management, ventilation techniques, critical care monitoring and assessment/care of the critically ill patient. **(3-1-3)**

RESP 123 CLINICAL APPLICATION AND PROCEDURES II - This course is a continuation to general floor care in the clinical field. It places emphasis upon helping the student develop **basic skills** in using respiratory care equipment and to understand the function, and application of equipment. Clinical experiences should also include administering small volume nebulizers, chest physiotherapy, oxygen therapy, aerosol and humidity, and patient assessment. This course also is an introduction to adult critical care. Clinical experience in this are consist of but not limited to the management of ventilators. **(0-16-3)**

RESP 127 PULMONARY DISEASE – This course is an in depth review of the etiology, pathology, radiological, diagnostic, and prognosis of cardiopulmonary disease. **(3-0-3)**.

RESP 130 ENTRY-LEVEL REVIEW - This course is designed to provide the student with a review of all didactic and clinical material covered during the first level of the program. The content matrix of the NBRC Entry-Level Examination is used as a guide for review objectives to present a comprehensive format for program review. **(3-0-1)**

RESP 218 ADVANCED PHARMACOLOGY - This course is a continued study of pharmacological principles/practices of drugs which affect the cardiopulmonary system. **(2-0-1)**

RESP 226 CLINICAL APPLICATION AND PROCEDURES III - This course is a continuation of adult critical care in the clinical settings. It places emphasis upon helping the student master basic skills in using respiratory care equipment and to understand the function, and application of equipment. The student will be exposed to more independent learning and patient care in advance critical care settings to basic adult critical care skills, ventilator management in long term and acute settings. **(0-16-3)**

RESP 230 RESPIRATORY CARE TOPICS - Clinical Practice Guidelines will be emphasized and other topics relating to respiratory care will be discussed. Emphasis will be on the student developing an understanding of respiratory hemodynamics, sleep studies, shock, pharmacology, nutritional assessment of patients with respiratory disease, ECG, PFT, assessment of the home care patient, mechanical ventilation, principles of evaluating current scientific literature/ fundamental principles of healthcare reimbursement, professionalism/ dress for interview, ethics, licensure, & review role of RT, and provision of services for and management of patients with special. **(1-0-1)**

RESP 231 CRITICAL CARE CONCEPTS II - This course is a continuation of RESP 122, assessment, modification of mechanical ventilation, initiate, conduct, or modify respiratory care techniques in an emergency setting, chest tube, and other special procedures **(3-1-3)**

RESP 235 NEONATOLOGY AND PEDIATRIC RESPIRATORY CARE - This course is a review of cardiopulmonary systems with emphasis on the anatomy and physiology of the heart and lungs of the neonatal and pediatric patients. Clinical implications are discussed to gain and understanding of the normal functions of the heart and lungs. **(3-0-3)**

RESP 240 DIAGNOSTIC PROCEDURES - A lecture/laboratory course designed as an introduction to basic instrumentation and diagnostic techniques employed in the assessment and evaluation of the cardiopulmonary patient with emphasis on pulmonary function and EKG's. **(2-1-2)**

RESP 256 ADVANCED CARDIOPULMONARY PHYSIOLOGY - This course is a review of cardiopulmonary systems with emphasis on the anatomy and physiology of the heart and lungs. Clinical implications are discussed to gain and understanding of the normal functions of the heart and lungs. **(2-0-2)**

RESP 262 CLINICAL APPLICATION AND PROCEDURES IV - This is a clinical course which emphasizes advanced skills in ventilator management, in long term and acute care settings, anesthesia, pulmonary rehab, NICU, PFT, and hyperbaric therapy. **(0-24-3)**

RESP 276 ADVANCED REVIEW - This course is designed to provide the student with advanced review of all didactic and clinical material covered during all courses of the Advanced Practitioner Program. The content matrix of the NBRC Advanced Practitioner Examination (Written Registry) and Clinical Simulation Examination are used as a guide for review objectives to present a comprehensive format for program review. **(2-0-2)**

SOCIOLOGY (SOCL)

SOCL 210 INTRODUCTION TO SOCIOLOGY - This course will focus on the scientific study of society, group behavior, and organizations. Emphasis will be placed on the development and understanding of present-day social and cultural life. **(3-0-3)**

SOCL 220 MODERN SOCIAL PROBLEMS - The focus in this course is on major social problems resulting from group life in the United States. Individual, family and community organization will be examined to determine how and why specific problems develop within these groups. **(3-0-3)**

SOCL 235 MARRIAGE AND THE FAMILY - The institutions of marriage and the family will be the focus. Problems and interactional patterns common to these institutions will be examined. **(3-0-3)**

SOCL 241 URBAN SOCIOLOGY - Urban social structures from a world perspective will be examined. **(3-0-3)**

SOCL 251 CULTURAL ANTHROPOLOGY - The descriptive and historical review of societies with different cultural traditions will comprise this course. **(3-0-3)**

SOCL 256 MINORITIES IN AMERICA - This course will examine the relationships that exist between the dominant and minority groups within the United States. **(3-0-3)**

SPANISH (SPAN)

SPAN 100 ELEMENTARY SPANISH I [LCCN: CSPN 1013, ELEMENTARY SPANISH I]
Basic lexicon and structure of Spanish; emphasis on the four basic skills (listening, speaking, reading, and writing) and culture of the Spanish-speaking world. Beginning course: no previous knowledge of Spanish expected or required. **(3-0-3)**

SPAN 101 ELEMENTARY SPANISH II [LCCN: CSPN 1023, ELEMENTARY SPANISH II]- Continuation of the study of Spanish on the elementary level. **Prerequisite:** SPAN 100 or placement test. **(3-0-3)**

SPAN 200 INTERMEDIATE SPANISH I [LCCN: CSPN 2013, INTERMEDIATE SPANISH I] - Intermediate level study of structures and lexicon of Spanish; additional emphasis on the four basic skills and culture. **Prerequisite:** SPAN 101 or placement test. **(3-0-3)**

SPAN 201 INTERMEDIATE SPANISH II [LCCN: CSPN 2023, INTERMEDIATE SPANISH II] - Continuation of the study of Spanish on the intermediate level. **Prerequisite:** SPAN 200. **(3-0-3)**

SPLP (SPEECH LANGUAGE PATHOLOGY)

SPLP 200 INTRO TO SPEECH LANGUAGE PATHOLOGY - This course introduces the student to the profession of speech/ language pathology and hearing by providing an overview. A survey of the etiology, nature, and management of speech/language and hearing disorders. **(3-0-3)**

SPLP 230 INTRODUCTION TO PHONETICS - This is a study of the physics and physiology of speaking and an introduction to the principles of phonetic transcription. **(3-0-3)**

SPLP 240 VOICE AND DICTION - This is a study of the physical and physiological bases of phonation and the use of speech. Techniques for perfecting the operation of vocal mechanisms and for obtaining vocal control are introduced. **(3-0-3)**

SPLP 250 NORMAL SPEECH AND LANGUAGE ACQUISITION - A study of the normal development of speech and language that focuses on concepts, theories, methods, and research on the process involved in its acquisition. **(3-0-3)**

SPLP 260 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING PROCESSES - A study of the anatomy and physiology of the neurological, respiratory, phonation, articulation, and hearing mechanisms. **(3-0-3)**

SPLP 270 INTRODUCTION TO COMMUNICATION DISORDERS - This course introduces the student to the profession of speech/ language pathology and hearing by providing an overview. A survey of the etiology, nature, and management of speech/language and hearing disorders. **(3-0-3)**

SPLP 280 INTRODUCTION TO AUDIOLOGY - A theory and practice of audiometric testing, theories of hearing, interpretation of audiograms, causes and types of hearing loss, and the relationship of audiology to speech therapy. Prerequisites: Speech 250 and 260. **(3-0-3)**

SPLP 290 SPEECH AND HEARING SCIENCE - This course explores the fundamental principles of sound and vibration with emphasis on acoustics and perception on the speech and hearing systems. **(3-0-3)**

SPLP 299 SUPERVISED OBSERVATION - This course is designed to provide opportunities for supervised observation of diagnostic and therapeutic procedures utilized in speech/language pathology. Students will observe sessions at local facilities (speech clinics, public schools, and hospital settings) in the area. **(1-0-1)**

STERILE PROCESSING TECHNICIAN (SPDT)

SPDT 100 INTRODUCTION TO CENTRAL SERVICE – This course introduces students to Medical Terminology, Anatomy and Physiology, Microbiology and Infection Prevention, and control topics related to central service departments' functions. **(2-2-4)**

SPDT 104 SURGICAL INSTRUMENTS – This course introduces students to surgical instrumentation, complex surgical instruments, sterilization packaging, point of use processing, high temperature sterilization, low temperature sterilization, and sterile processing for ambulatory surgery and other processes. **(2-2-4)**

SPDT 110 INTRO TO STERILE PROCESSING AND DISTRIBUTION - This course is designed to prepare students for employment or supervisory positions in, but not limited to surgical central sterile services, central supply, stocking clerks, stock rooms, order fillers, warehouse, and sterilization, disinfection, and decontamination areas. **(2-2-4)**

SPDT 200 CENTRAL SERVICE DISTRIBUTION AND MATERIAL MANAGEMENT – This course introduces students to the standards and regulations, inventory management, management of patient care equipment, tracking systems, quality assurance, safety, communication and human relations skills, and electronic interface of the inventory control systems. **(2-2-2)**

SPDT 210 CENTRAL STERILE PROCESSING DEPARTMENT PRACTICUM - This course is designed to prepare students for employment in the related areas of central service technology as students work with preceptors to gain skills and competencies as necessary for employment as central service technicians, supervisors, central supply workers, stock clerks in the stock room or warehouse, and processing technicians for hospital areas requiring expertise in sterilization, disinfection, or decontamination skills. **(0-24-10)**

SPDT 221 CENTRAL STERILE PROCESSING REVIEW - This is a lecture course that will use mock written tests similar in form and content to the national certification exam to review and prepare students for the national exam. The students will prepare both independently and with supervision to sit for the National Certification Examination. **(3-3-3)**

SURGICAL TECHNOLOGY (SURG)

SURG 101 INTRODUCTION TO SURGICAL TECHNOLOGY - This is an orientation to surgical technology course that is open to any student interested in the surgical technology field. The course covers the history of surgery and the field of surgical technology, technology today, biopsychosocial needs of the patient, care of special population, professional management, employability skills, communication skills and teamwork, ethical and moral issues, legal issues, documentation & risk management, review of the chart, surgical consent, healthcare facility information, healthcare facility organization and management, death and dying, all-Hazards preparation (2-0-2)

SURG 103 INTRODUCTION TO SURGICAL TECHNOLOGY PRACTICE - The course is open to students interested in surgical technology, but the number of students accepted is limited to the lab space available. This course includes lectures and laboratory practice designed to familiarize the student with physical environment and safety standards. It covers attire, preoperative physical preparation of the patient, patient identification, transportation, transfer, positioning, urinary catheterization, skin preparation, equipment, instrumentation, sterile asepsis and technique, surgical scrub, gowning and gloving, counts, draping, specimen care, disinfection and sterilization, sterile storage and distribution, environmental disinfection of the OR, perioperative case management, assistant circulator role, physical environment, summative lab skills assessment, surgical technologist in the scrub and in the assistant circulator role. (3-4-3)

SURG 105 SURGICAL TECHNOLOGY PRACTICUM I - The student is admitted into the Surgical Technology Program and introduced to the OR for hands-on practice in the surgical suites. Attention is geared towards gaining confidence and expertise in the application of the principles of asepsis and working with the surgical team. Functioning safely and efficiently in the clinical setting, performing scrubbing and assistant to the circulator duties as needed. The student begins to accurately maintain surgery case logs, and record surgical procedures. (0-18-4)

SURG 114 BIOMEDICAL SCIENCE - This course covers electricity and electrical flow, components of the computer system, computer knowledge of the educational process and safe patient care practices in the OR, the use of internet and patient confidentiality, description of robotics in surgery and surgical applications of robotic. (1-0-1)

SURG 116 SURGICAL TECHNIQUES - Cell, Introduction to Microscopy, Staining Methods, Culture Media, Nomenclature of Microbiology, Host-Microbe Relationships, Types of Microorganisms, Common Causative Agents, Immunology, Process of Infection, Inflammation and Infection, Hemostasis, Exposure Catheters and drains, Wound closure, Surgical dressings, Wound healing, Tissue Replacement Materials. (2-1-3)

SURG 119 SURGICAL PROCEDURES I - Selected surgical procedures are discussed, including relevant anatomy, physiology, pathophysiology, diagnostic interventions, surgical interventions, plan for intraoperative course for the patient, and postoperative considerations. (3-0-3)

SURG 221 SURGICAL PROCEDURES II - This course continues the study of selected procedures, with continued discussion of anatomy, physiology, pathophysiology, diagnostic interventions, surgical interventions, plan for intraoperative course for the patient, and postoperative considerations. (3-0-3)

SURG 222 SURGICAL TECHNOLOGY - PRACTICUM II - The student is admitted into the Surgical Technology Program and introduced to the OR for hands-on practice in the surgical suites. Attention is geared towards gaining confidence and expertise in the application of the principles of asepsis and working with the surgical team. Functioning safely and efficiently in the clinical setting, performing circulating duties as needed, and efficiently recording and reporting operative data are emphasized. **(0-18-6)**

SURG 225 SURGICAL PROCEDURES III - This course continues the study of selected procedures, with continued discussion of anatomy, physiology, pathophysiology, diagnostic interventions, surgical interventions, plan for intraoperative course for the patient, and postoperative considerations. **(3-1-3)**

SURG 226 SURGICAL TECHNOLOGY - PRACTICUM III - The student continues to gain clinical proficiency in general surgical procedures and commonly performed specialty procedures. Emphasis is especially placed on functioning with minimal supervision. The student is expected to complete a minimum of one hundred and twenty (120) surgery cases as specified by the Association of Surgical Technologists (AST) 6th Edition curriculum. **(0-18-6)**

SURG 228 PERSONAL AND PROFESSIONAL DEVELOPMENT - This course discusses factors that affect the surgical technology profession, and addresses related professional organizations, employment skills, career opportunities, job interview, preparation of a professional resume and stress management. Students are given an opportunity to re-examine topics previously discussed in surgical technology. **(3-3-4)**

SURG 238 NATIONAL EXAM REVIEW - Students participate in lectures, presentations, tutoring and mock exams in preparation for the national certification examination. An exit examination is given at the end of this course. Students must be successful ("C" or better) on a comprehensive exit exam given at the end of the course and determines the student's ability to exit (graduate) from the program. **(3-6-3)**