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Catalog

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Louisiana State University at Alexandria is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone number 404-679-4501) to award associate and baccalaureate degrees.

The effective date of this catalog is Fall Semester 2004.

COURSE DESCRIPTIONS

Accounting (ACCT)

2001 Financial Accounting Lec. 3 Lab. 0 Cr. 3
Prerequisite: MATH 1021. Financial accounting with emphasis on knowledge required for completion of the accounting cycle, including income measurement and financial statement preparation; accounting for current and plant assets, current and long-term liabilities, stockholders' equity, and cash flows.

2101 Managerial Accounting Lec. 3 Lab. 0 Cr. 3
Prerequisite: ACCT 2001. Principles and methods of accounting primarily concerned with data gathering and presentation for purposes of internal management evaluation and decision making.

3020 Intermediate Accounting I Lec. 3 Lab. 0 Cr. 3
Prerequisite: Grade of "C" or above in ACCT 2001 and 2101. Accounting concepts and principles underlying the preparation of financial statements; their application in the measurement and reporting of selected balance sheet items and related revenue and expense recognition.

3021 Intermediate Accounting II Lec. 3 Lab. 0 Cr. 3
Prerequisite: Grade of "C" or above in ACCT 3020. Continuation of ACCT 3020. Accounting for liabilities, income taxes, pensions, leases, stockholders' equity, earnings per share, accounting changes and corrections of errors, and income and balance sheet presentations.

3121 Cost Accounting Lec. 3 Lab. 0 Cr. 3
Prerequisite: Grade of "C" or above in ACCT 2101. Nature, objectives, basic systems, and procedure of cost accounting and control for manufacturing firms; cost-volume-profit relationships; standard costs and variance analysis; direct costing; relevant costs; activity-based costing.

3122 Accounting Information Systems Lec. 3 Lab. 0 Cr. 3
Prerequisite: Grade of "C" or above in ACCT 2101 and CIS 1100. Analysis and design of standard accounting systems; emphasis on computerized systems and internal control issues.

3221 Tax Accounting I Lec. 3 Lab 0 Cr. 3
Prerequisite: Grade of "C" or above in ACCT 2001. Fundamentals of federal income taxation with respect to individuals and other entities, income inclusions and exclusions, and statutory deductions in arriving at tax liability.

4022 Advanced Accounting Lec. 3 Lab 0 Cr. 3
Prerequisite: Grade of "C" or above in ACCT 3021. Completion of the core financial accounting sequence; business combinations, consolidated financial statement, segment reporting, foreign operations, and Securities and Exchange Commission procedures.

4123 Auditing Lec. 3 Lab. 0 Cr. 3
Prerequisite: Grade of "C" or above in ACCT 3021 and ACCT 4022. Theoretical and practical development of the independent audit function; generally accepted auditing standards; collection and evaluation of audit evidence; understanding internal control; risk assessment; transaction cycles; and reporting.

4221 Tax Accounting II Lec. 3 Lab. 0 Cr. 3
Prerequisite: Grade of "C" or above in ACCT 3221. Fundamentals of federal income taxation, with respect to partnerships, corporations, and shareholders.

4421 Governmental and Not-for-Profit Accounting Lec. 3 Lab. 0 Cr. 3
Prerequisite: Grade of "C" or above in ACCT 3020. Accounting, budgeting, fiscal processes, and financial records of local, state, and federal governmental bodies and of private nonprofit institutions.

Anthropology (ANTH)

1001 ✦ General Anthropology Lec. 3 Lab. 0 Cr. 3
Origin and evolution of man, the modern races, prehistory of mankind, and linguistic classification.

1003 ✦ Culture Growth Lec. 3 Lab. 0 Cr. 3
Nature of culture; social organization; primitive religion, magic, and arts.

2030T Anthropology Study Tour Lec. 3 Lab. 0 Cr. 3
Selected sites and selected topics. Travels, lectures, readings, and reports. This course may be used as an elective credit only and may be repeated for up to six hours credit when sites and topics change.

4003 Native Americans of Mexico Central and South America Lec. 3 Lab. 0 Cr. 3
Introduction to the major early cultures of South and Mesoamerica. The course first looks at the earliest occupants of Mexico, Central America, and South America and their development from

Archaic cultures into farming societies. Then the focus shifts to the social, political, economic, religious, and architectural foundations of the major civilizations, including the Olmec, Maya, Toltec, Mixtec, and Aztec and Inca.

4004 North American Indians Lec. 3 Lab. 0 Cr. 3

The origin, distribution, language and culture of the aboriginal peoples of the North American Continent.

4081 Evolution of Man and Culture Lec. 3 Lab. 0 Cr. 3

The biological and cultural evolution of the human species.

Biology (BIOL)

1001 ✦ General Biology I Lec. 3 Lab. 0 Cr. 3

An introduction to biological principles including basic biochemistry, cell structure and function, metabolism, genetics, evolution, and ecology. Degree credit will not be given for both BIOL 1001 and BIOL 1201.

1002 ✦ General Biology II Lec. 3 Lab. 0 Cr. 3

Prerequisite: BIOL 1001. A taxonomic survey of living organisms (viruses, bacteria, algae, fungi, higher plants and animals). Includes study of structure and functions of organs and systems with emphasis on advanced plants and vertebrates. Degree credit will not be given for both BIOL 1002 and BIOL 1202.

1003 ✦ General Biology Laboratory I Lec. 0 Lab. 2 Cr. 1

Prerequisite: credit or registration in BIOL 1001. Survey of Plant Kingdom.

1004 ✦ General Biology Laboratory II Lec. 0 Lab. 2 Cr. 1

Prerequisite: credit or registration in BIOL 1002. Survey of Animal Kingdom.

1161 Human Anatomy and Physiology I Lec. 3 Lab. 2 Cr. 4

Prerequisite: Completion or exemption from all developmental courses. Topics include cell structure and function, tissues, integument, skeleton and muscle, chemistry, and biochemistry. Not for degree credit for science majors.

1162 Human Anatomy and Physiology II Lec. 3 Lab. 2 Cr. 4

Pre-requisite: BIOL 1161. Continuation of BIOL 1161. Topics include blood circulation, lymphatic system, immunology, respiratory system, urinary system, reproduction, endocrinology, digestion, and nervous system. Not for science majors.

1201 ✦ Biology for Science Majors I Lec. 3 Lab. 2 Cr. 4

Prerequisite: Exemption from or completion of developmental courses. Credit will not be given for both this course and BIOL 1001 and 1003. General concepts in cellular structure, cellular metabolism, cellular communication, evolution, and genetics.

1202 ✦ Biology for Science Majors II Lec. 3 Lab. 2 Cr. 4

Prerequisite: Completion of BIOL 1201 with a "C" or better. Credit will not be given for both this course and BIOL 1002 and 1004. General concepts in ecology and the diversity of life.

2016T Rainforest Ecology (Travel Course) Cr. 3

An introduction to the moist lowland forest of the American tropics, including: the ecological functions that maintain the ecosystem, biological diversity, adaptations and interrelationships of species, threats to the ecosystem, and possibilities for management. Course will include pre-trip lectures and a one-week field trip to the rainforest of the Peruvian Amazon.

2030 ✦ Introduction to Environmental Science Lec. 3 Lab. 0 Cr. 3

Prerequisite: Eligibility for ENGL 1001. The relationship of man as a biological unit to the Earth's ecosystems. A study of the basic laws which govern these ecosystems and ecological problems created by man's modification of the environment. This course is intended as a cultural elective for non-science as well as science majors.

2031 Principles of Wildlife Management Lec. 3 Lab. 0 Cr. 3

Wildlife conservation and management; ecology and management of wildlife in relation to the objectives of consumptive and nonconsumptive interest groups.

2051 ✦ General Microbiology Lec. 2 Lab. 4 Cr. 4

Prerequisite: Chemistry 1001 or 1201 and Biology 1001, 1201, or 1161. A study of the structure and function of microbial cells with emphasis on their relationship to man.

2080 **Cell/Molecular Biology Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BIOL 1201, 1202, CHEM 1202. Living systems at the cellular, subcellular, and molecular levels. Emphasis on molecular control of cellular activity, intermediate metabolism, and energy transformation.

2414 **Basic Organic and Biochemistry Lec. 4 Lab. 0 Cr. 4**
(Also offered as CHEM 2414). Prerequisite: CHEM 1202. A presentation of: 1) the fundamental reaction capabilities of organic molecules and their functional groups, and 2) the basic principles of physiological chemistry with an emphasis on their application to problems encountered in the practice of nursing. Four hours of lecture each week.

3040 **Evolution Lec. 3 Lab. 0 Cr. 3**
Prerequisite: 12 hours in biological sciences. Principles and processes in evolutionary biology.

3150 **Animal Physiology Lec. 3 Lab. 3 Cr. 4**
Prerequisite: BIOL 2080, CHEM 1202. A systems approach covering operations associated with maintaining homeostasis. Major functional mechanisms of animal systems will be covered with emphasis placed on vertebrate animals.

3152 **Comparative Anatomy Lec. 3 Lab. 3 Cr. 4**
Prerequisite: BIOL 1201, 1202. Structure and function in vertebrates as viewed from an evolutionary perspective.

3153 **Genetics Lec. 3 Rec. 1 Cr. 4**
Prerequisite: BIOL 2080. Molecular and Mendelian bases of inheritance. Fundamental laws of heredity applied to all kingdoms.

3154 **Development Lec. 3 Lab. 3 Cr. 4**
Prerequisite: BIOL 2080. Developmental phenomena are approached first by analysis of the molecular and cellular bases of these processes, which are common to the eukaryotes, and secondly by descriptions of selected examples of development, including fungi, protozoa, algae, higher plants, and animals.

3160 **Survey of the Plant Kingdom Lec. 3 Lab. 3 Cr. 4**
Prerequisite: BIOL 1201, 1202. An introduction to the plant kingdom with emphasis on plant cell structure, photosynthesis, cellular respiration, reproduction, heredity, and the evolutionary relationships of representative nonvascular and vascular plants.

3161 **Plant Anatomy/ Physiology Lec. 3 Lab. 3 Cr. 4**
Prerequisite: BIOL 3160. A study of the structure, function, and development of the vegetative and reproductive organs and the physiology of seed plants.

3500 **Natural History of the Vertebrates Lec. 2 Lab. 6 Cr. 4**
Prerequisite: BIOL 1201, 1202. Study of the taxonomy, phylogeny, ecology, and life histories of fishes, amphibians, reptiles, birds and mammals. Laboratory will emphasize field and laboratory study of representative Louisiana species.

3990 **Biological Research Cr. 1-3**
Prerequisite: Approval of instructor. Individual, supervised research problems. Students will prepare oral and written presentations of their research.

4000 **Senior Seminar Cr. 1**
Prerequisite: Senior standing required. A capstone course required of all biological sciences majors.

4015 **Conservation Biology Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BIOL 1201, 1202, (3153 recommended). Application of principles of ecology, evolution, and genetics to conservation. Emphasis on threats to biodiversity and habitats as well as management solutions for these threats.

4041 **Plant Taxonomy Lec. 2 Lab. 4 Cr. 4**
Prerequisite: BIOL 3160. A study of the classification of nonvascular and vascular plants of the Southeastern United States with emphasis on plants native to Louisiana.

4104 **Histology Lec. 3 Lab. 3 Cr. 4**
Prerequisite: BIOL 2080. Introduction to the study of tissues.

4110 **Biochemistry Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CHEM 2262. Structure and function of bio-molecules, properties of enzymes, energy transformations, metabolism, and the regulation of cellular processes and functions.

4154 **Invertebrate Zoology Lec. 3 Lab. 3 Cr. 4**
Prerequisite: BIOL 2080. Biology of the invertebrates with emphasis on phylogeny, morphology, life history, and ecology.

4253 **Principles of Ecology Lec. 3 Lab. 3 Cr. 4**
Prerequisite: BIOL 1201, 1202 and STAT 2011. Study of the principles governing the relationships between living organisms and their environment. Includes structure and function of ecosystems,

communities and populations as well as discussion of current ecological problems. Laboratory emphasizes measurement, interpretation, and application of ecological data.

4999 Topics in Biology Lec. TBA Lab. TBA Cr. 3-4

Prerequisite: BIOL 2051, 2080. Study of a specific topic in the biological sciences. Topics offered to be determined by recent advances, needs of students, and availability of appropriate faculty.

Business (BUS)

1001 Introduction to Business Lec. 3 Lab. 0 Cr. 3

(Not open to students who have credit for more than 12 semester hours in ACCT/BUS/ECON courses.) A survey course designed to present an overview of the operation of the business firm and acquaint the student with phases of business organizations and operations and guide them in their occupational choice

1501 Personal Finance Lec. 3 Lab. 0 Cr. 3

Applied course in Personal Family Finance Problems. This includes need for borrowing, making many different types of expenditures, making plans for retirement, budgeting of income, insurance, investments, and home ownership.

2001 Legal Environment of Business Lec. 3 Lab. 0 Cr. 3

Studies the relationship between American legal institutions and the business world. Overview of the court system, ethics, torts, contracts, consumer protection, anti-trust, employment, and environmental laws.

3200 Principles of Management Lec. 3 Lab. 0 Cr. 3

Prerequisite: ACCT 2101, ECON 2010 and ECON 2020. Management functions, including planning, organizing, staffing/human resource management, leading/interpersonal influence, and controlling in both domestic and international spheres.

3201 Business Law I Lec. 3 Lab. 0 Cr. 3

A survey of general principles of law in the areas of contracts, intellectual property, sales, torts and Louisiana Civil Law.

3202 Business Law II Lec. 3 Lab. 0 Cr. 3

Prerequisite: BUS 3201. A survey of general principles of law in the areas of negotiable instruments, creditor/debtor rights, agency, business organization and Louisiana Commercial Code.

3211 Business and Society Lec. 3 Lab. 0 Cr. 3

Prerequisite: BUS 3200 and junior standing. Social roles of organizations whose primary function is the accumulation of profits; emphasis on current issues; historical development of business-society relationships.

3215 Introduction to Operations Management Lec. 3 Lab. 0 Cr. 3

Prerequisites: BUS 3200 and MATH 2011. Principles and methodologies concerning productivity and quality of manufacturing and service organizations; production and service systems design; process and capacity design; total quality management; systems for just-in-time and purchasing management; inventory and materials management.

3320 Human Resource Management Lec. 3 Lab. 0 Cr. 3

Prerequisite: BUS 3200 or consent of instructor. Human resource functions, including planning, recruitment, selection, development, maintenance, and reward of employees; relationships with environment and employee associations.

3401 Principles of Marketing Lec. 3 Lab. 0 Cr. 3

Prerequisite: ECON 2020. The field of marketing; marketing environment, functions, and institutional structure at a macro level; marketing strategy and policies at a micro level; problems of cost and productivity; view points of society, consumer, and marketing manager.

3411 Consumer Analysis and Behavior Lec. 3 Lab. 0 Cr. 3

Prerequisite: BUS 3401. Dynamics of consumer markets; their significance to marketing executives; identification and measurement of market segments; analysis of their behavioral patterns as a basis for marketing strategy.

3430 Advertising Lec. 3 Lab. 0 Cr. 3

Prerequisite: BUS 3401 or consent of instructor. Fundamentals of advertising theory and practice; social and economic role of advertising; functions of advertising in marketing and communication.

3715 Business Finance Lec. 3 Lab. 0 Cr. 3

Prerequisite: ECON 2020 and ACCT 2101. Finance function within the business enterprise; techniques of financial management, concepts of capital structure and dividend policy, working capital management, capital budgeting, institutional and international environment of the firm.

4113 Small Business Management **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3200, BUS 3401, BUS 3715. A multidisciplinary approach to small business; business startups, accounting, finance, marketing, management, promotion, layout, retail management, location analysis, and international small business.

4322 Employee Selection and Placement **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3320 or BUS 4524 or instructor consent. The specifics of employee recruitment, hiring, and placement processes will be examined.

4420 Multinational Management **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3200. Management concepts and philosophical bases for international management operations; environmental dynamics, multinational business organizations, cultural constraints, organizational structures and processes, and conceptual systems of international operations.

4423 Sales Management **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3401. Principles of sales planning and control; organizing sales planning and control; organizing sales departments, developing territories, motivating sales persons, and controlling sales operations.

4440 Marketing on the Internet **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3401. Appreciation of marketing principles and practices pertaining to the use of the Internet by organizations.

4443 International Marketing **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3401 or instructor consent. Global marketing environment and analytical process; global marketing as all-encompassing; marketing systems in various countries; strategies for multinational and international operations.

4451 Marketing Management **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3401 or consent of instructor. Analytical principles used in development of strategies for solving marketing problems; policy areas of product, price, channels, and promotion integrated in development of the firm's total marketing effort.

4524 Employment Law **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3200. The study of the regulation of employment, with particular emphasis on wrongful discharge, discrimination, evaluation and regulation of job performance, and sexual harassment.

4620 Human Behavior in Organizations **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3200. Behavioral sciences applied to understanding human dynamics in organizations; focus on individual, interpersonal, group, and intergroup behavior; impact of human behavior on organizational effectiveness.

4830 Business Policy **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: BUS 3200, BUS 3401, and BUS 3715. (May be taken only during either of the final semesters of course work.) The course will integrate the many facets of the Business Curriculum. The focus is on strategic management.

Chemistry (CHEM)

COREQUISITES: A student may not continue in a course if the corequisite course is dropped prior to the last day of the midsemester examination period.

1001 ✦ Introductory Chemistry for Non-Science Majors **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: Eligibility for MATH 1021. Credit will not be given for both this course and CHEM 1201. A course in the fundamentals of chemistry. Basic topics in inorganic, organic, and biochemistry.

1201 ✦ General Chemistry I **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: Eligibility for MATH 1021. Credit will not be given for both this course and CHEM 1001. A course in the fundamentals of inorganic chemistry, modern chemical theories and principles, quantitative problem solving, energy, reactions and their applications. Students who plan to pursue curricula which require more than one year of college chemistry must take 1201 and 1202.

1202 ✦ General Chemistry II **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CHEM 1201 A continuation of CHEM 1201. Additional theory and quantitative problem solving with emphasis in solution chemistry, equilibrium, kinetics, entropy and free energy.

1212 ✦ General Chemistry Laboratory **Lec. 0 Lab. 6 Cr. 2**
Prerequisite: CHEM 1201. Corequisite: CHEM 1202. A laboratory course in fundamental chemical operations and elementary quantitative techniques.

2261 Organic Chemistry I **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CHEM 1202 and 1212. Basic organic chemistry including stereochemistry, bonding, nomenclature, reactions, mechanisms, and synthesis.

2262 Organic Chemistry II Lec. 3 Lab. 0 Cr. 3
Prerequisite: CHEM 2261. A continuation of CHEM 2261.

2361 Organic Chemistry Laboratory I Lec. 1 Lab. 3 Cr. 2
Pre or Corequisite: CHEM 2261. Basic organic chemistry laboratory. Fundamental concepts and operations of organic chemistry.

2362 Organic Chemistry Laboratory II Lec. 1 Lab. 3 Cr. 2
Pre or Corequisite: CHEM 2262. A continuation of CHEM 2361.

2414 Basic Organic and Biochemistry Lec. 4 Lab. 0 Cr. 4
(Also offered as BIOL 2414). Prerequisite: CHEM 1202. A presentation of: 1) the fundamental reaction capabilities of organic molecules and their functional groups, and 2) the basic principles of physiological chemistry with an emphasis on their application to problems encountered in the practice of nursing. Four hours of lecture each week.

Civil Engineering (CE)

2450 Statics Lec. 3 Lab. 0 Cr. 3
Prerequisite: A grade of "C" or better in MATH 1550, MATH 1552, and PHYS 2101. Vectorial treatment of resultants and equilibrium of force systems, centroids, centers of gravity, fluid statics, friction.

Clinical Laboratory Technician (CLT)

1010 Introduction to Clinical Laboratory Science Lec. 3 Lab. 0 Cr. 3
Prerequisite: BIOL 1161, MATH 1021, CHEM 1201, ENGL 1001 and NURS 1010. An introduction to the clinical laboratory science profession and its organizational structure. The communication process, professional ethics, the legal aspects of laboratory service, lab mathematics, basic quality control processes, lab safety and basic instrumentation are also introduced. The course is open to all students interested in entering the CLT Program or any clinical laboratory science discipline.

2110 Clinical Hematology I Lec. 2 Lab. 3 Cr. 3
Prerequisite: CLT 1010, admittance to the CLT Program, and approval of instructor. A study of the formation, development, morphology, and function of various types of normal/abnormal blood cells, synthesis of hemoglobin, and laboratory diagnosis of anemias. Course includes laboratory practices that support and reinforce these studies.

2220 Clinical Hematology II Lec. 2 Lab. 3 Cr. 3
Prerequisite: CLT 2110 and approval of instructor. A study of the pathophysiology of blood cells, especially the leukocytic line. Coagulation and hemorrhagic disorders will also be studied. Course includes laboratory practices in evaluation of abnormal blood smear and coagulation techniques.

2230 Medical Parasitology Lec. 1 Lab. 3 Cr. 2
Prerequisite: CLT 1010, admittance to the CLT program, and approval of instructor. A study of the morphology, physiology, life cycles, and epidemiology of human pathogenic parasites. Laboratory practices in the identification of these parasites.

2240 Clinical Immunology and Serology Lec. 2 Lab. 3 Cr. 3
Prerequisite: CLT 2110 and approval of instructor. A study of the basic aspects of the immune system and application of the antigen-antibody reaction in various disease states. Laboratory practices pertinent to serological testing of blood and body fluids to support these studies.

2250 Clinical Chemistry I Lec. 2 Lab. 3 Cr. 3
Prerequisite: CLT 1010, CHEM 1201, and approval of instructor. A study of human biochemistry as an aid in the diagnosis of disease process including laboratory applications in body fluid analysis, manual biochemical procedures and instrumentation.

2360 Pathogenic Microbiology Lec. 2 Lab. 3 Cr. 3
Prerequisite: BIOL 2051, CLT 1010, or approval of instructor. A study, characterization and identification of a representative spectrum of those microorganism pathogenic to humans and the study of fungi. Laboratory practices in pathogenic microbial identification and differentiation.

2370 Clinical Immunohematology Lec. 2 Lab. 3 Cr. 3
Prerequisite: CLT 2110; Pre or Corequisite: CLT 2240, and approval of instructor. A study of basic theory and practice of immunohematology. Emphasis will be placed upon blood grouping, typing, and those services supplied by a blood collection and transfusion service.

2380 Clinical Chemistry II Lec. 2 Lab. 3 Cr. 3

Prerequisite: CLT 2250 and approval of instructor. The continuation of the study of human biochemistry as an aid in the diagnosis of disease process including laboratory applications in body fluid analysis, manual biochemical procedures and instrumentation.

2410 Practicum I (See Description) Cr. 4

Prerequisite: All didactic and student laboratory CLT courses. Clinical practice in a clinical affiliate. Emphasis is on developing and applying knowledge and technical skills in blood collection, clinical hematology, and coagulation clinical chemistry, immunohematology, microbiology, urinalysis, and immunology/serology. Minimum of 320 clinical hours.

2420 Practicum II (See Description) Cr. 2

Prerequisite: All didactic and student laboratory CLT courses. This clinical practice is a continuation of CLT 2410. Minimum of 160 clinical hours.

2430 Practicum III (See Description) Cr. 3

Prerequisite: All didactic and student laboratory CLT courses. This clinical practice is a continuation of CLT 2420. Minimum of 240 clinical hours.

Computer Information Systems (CIS)

1000 Basic Computer Literacy Lec. 0 Lab. 2 Cr. 1

A hands-on introduction to the operation and use of the microcomputer. Topics covered will include turning on the computer, using a mouse, interacting with the graphical user interface, word processing, spreadsheet creation, email, and searching the Internet. Not for baccalaureate degree credit.

1100 Introduction to Management Information Systems Lec. 3 Lab. 0 Cr. 3

Management of information, computers, and systems; utilization of management information systems to improve managerial decision making.

1200 Information Systems Fundamentals Lec. 3 Lab. 0 Cr. 3

Systems theory, quality, decision making, and the organizational role of information systems are introduced. Information technology including computing and telecommunications systems are stressed. Concepts of organizations information systems growth, and process improvement are introduced.

1250 Programming Lec. 3 Lab. 0 Cr. 3

Prerequisites: CIS 1100, MATH 1021. This course introduces the concepts of creating projects using objects, decisions, loops and data management in a visual interface environment. It uses the basic concepts of programming, problem solving and programming logic using object oriented, event driven language.

2300 Networking Fundamentals Lec. 3 Lab. 0 Cr. 3

Prerequisite: CIS 1200. This course provides a foundation in current network technologies for local area networks (LANs), side area networks (WANs), and the Internet. It addresses the hardware, software, terminology, components, design, network connections, topologies and protocols.

2400 Database Fundamentals Lec. 3 Lab. 0 Cr. 3

Prerequisite: CIS 1200. This course covers the theory, utilization, design and maintenance of modern database technologies. It focuses on the relational model and includes object-oriented issues. It explores popular DBMS products, in particular Microsoft Access.

2402 Database Applications Lec. 3 Lab. 0 Cr. 3

Prerequisites: MATH 1021 and CIS 1200 and one programming course. Network, hierarchical, and relational models; manipulation languages; relational database design theory.

2500 System Administration/ Operating Systems I Lec. 3 Lab. 0 Cr. 3

Prerequisite: CIS 1200. This course provides a basic understanding of the issues and knowledge needed in performing the function of System Administration. It will stress both the Windows and Unix type operating System.

2999 Special Topics in Advanced Microcomputer Applications Lec. 3 Lab. 0 Cr. 3

Prerequisite: Consent of the instructor. The study and use of selected software packages and/or computer languages available for the microcomputer. May be taken more than once for credit when topic changes.

3000 Application Interface Development Lec. 3 Lab. 0 Cr. 3

Prerequisite: CIS 1100. A study of tools and techniques used in the development of application interface development. The object-oriented and visual programming paradigms as well as current operating systems will be emphasized.

3100 Management of Information Resources Lec. 3 Lab. 0 Cr. 3

Prerequisite: CIS 1100. Information as a

resource; issues in information resource management; elements of information systems; development and maintenance of information systems; controlling information resources.

3105 Internet Development Tools **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CIS 1100. Understanding of the Internet and its structure for use in business; technologies employed to develop Internet applications; development of business applications for the Internet.

3110 Database Processing for Management **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CIS 3100. Structure and function of managerial database; design options and implementation of database management systems in the firm; laboratory practice includes use of a particular software system.

3200 Advanced Business Programming **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CIS 1100 or permission of the instructor. Computer programming methods for business systems emphasizing contemporary programming environments and applications development interfaces.

3280 Computer Organization **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CIS 3200. Basic digital circuits; Boolean algebra and combinatorial logic, data representation and transfer, and digital arithmetic; digital storage and accessing, control functions, input-output facilities, system organization, features needed for multiprogramming, multiprocessing, and real-time systems.

4110 Business Decision Support Systems **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CIS 3110. Laboratory practice includes use of a particular software system. Business decision modeling; constructing a decision support system (DDS); DSS development tools; executive information systems; expert systems (ES) in business.

4111 Enterprise Systems **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CIS 3100. Overview of key enterprise systems concepts from functional, technical, and implementation perspective; emphasis on the process-centered organization and how integrated systems are designed to support cross-functional business; hands-on computer based exercises involving a hypothetical global company.

4112 Data Warehousing **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CIS 3100. Data Warehouses for business; topics include; top-down design, bottom-up design, data charts, multidimensional data, data mining, web-enabled data warehouse, knowledge management.

4120 Business Data Communications and Networking **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CIS 3100. Telecommunications in business, including both voice and data communication, technical details (hardware, software, protocols, network configurations), network management, and security issues.

4125 Analysis and Design of Information Systems **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: CIS 3110, 3200. Design philosophies and techniques for the creation of information systems for management decision making; conceptual design of actual information systems.

4900 Senior Seminar **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: Senior standing and consent of the instructor. A seminar with topics presented by students, faculty, and guests. Students will be required to develop and present a semester project.

Criminal Justice (CJ)

1107 Introduction to Criminal Justice **Lec. 3 Lab. 0 Cr. 3**
Introduction to criminal justice, its historical and philosophical background; its organizations, agencies, and processes, the development of modern practices; and its role in a democratic society.

2131 Police Process **Lec. 3 Lab. 0 Cr. 3**
A study of the role, scope, organization, and management of police agencies.

2132 The Judicial Process **Lec. 3 Lab. 0 Cr. 3**
Also offered as PRLG 2132. An examination of the role, function, and structure of the courts and their relationship to the criminal justice system.

2152 Community Oriented Policing and Problem Solving **Lec. 3 Lab. 0 Cr. 3**
A study that blends the concepts of community policing and problem oriented policing into a combined approach to provide quality police service. A proactive philosophy that promotes solving problems that are criminal, affect our quality of life, or increase our fear of crime. Encourages developing strategies to identify, analyze and address community problems at their source.

2215 Juvenile Delinquency **Lec. 3 Lab. 0 Cr. 3**

A study of the problems of juvenile delinquency with emphasis on theories, preventive programs, juvenile law, courts, treatment, and current problems in the juvenile justice system.

2216 Corrections Process Lec. 3 Lab. 0 Cr. 3

A study of the American correctional process with emphasis on the development of current correctional programs and practices, modern rehabilitative processes, and community-based correctional efforts. Focus is also given to the roles of the correctional system and its interrelation with the other components of the criminal justice system.

2265 Criminal Investigation Lec. 3 Lab. 0 Cr. 3

A course in the aspects of law enforcement investigations, interviews, confessions, use of written notes and statements, case preparations, trial preparation and procedures; police patrol, an analysis of pertinent court decisions and problems, and methods of coping with current emergency situations confronting law enforcement.

2275 Criminal Law Lec. 3 Lab. 0 Cr. 3

Prerequisite: CJ 1107 or consent of instructor. A course in the substantive criminal law that includes definition of law, definition of crime, general principles of criminal responsibility, elements of major crimes, punishments, conditions or circumstances that may excuse from criminal responsibility or mitigate punishment, the court systems of Louisiana and the United States, basic concepts of criminal law with emphasis on the penal law of the State of Louisiana.

2999 Internship in Criminal Justice (See Course Description, Cr. 3)

A structured program of supervised, observation and/or participation in activities of local, state, and/or federal criminal justice agencies. A minimum of 180 clock hours of work are required. Weekly written reports must be submitted. Prerequisites: Open only to criminal justice majors who have completed 12 semester hours credit in criminal justice and have no prior criminal justice work experience. A minimum of a 2.75 grade point average in all criminal justice course work is required. Must have permission of criminal justice instructor or department chair. Must make application for the internship the semester prior to that in which it will be taken.

3025 Ethical Leadership in Criminal Justice Lec. 3 Lab. 0 Cr. 3

Prerequisites: A grade of "C" or better in CJ 1107 and CJ 2131 or instructor consent. A look at leadership and ethical issues faced in a criminal justice setting.

3030 Research Methods in Criminal Justice and Criminology Lec. 3 Lab. 0 Cr. 3

Prerequisite: CJ 1107. Basic research skills and methodologies will be explored through a thorough examination of the works of the criminal justice researchers and criminologists.

3152 Community Oriented Policing and Problem Solving Lec. 3 Lab. 0 Cr. 3

A study that blends the concepts of community policing and problem oriented policing into a combined approach to provide quality police service. A proactive philosophy that promotes solving problems that are criminal, affect our quality of life, or increase our fear of crime. Encourages developing strategies to identify, analyze and address community problems at their source.

3206 Industrial and Business Security Lec. 3 Lab. 0 Cr. 3

Prerequisite: A grade of "C" or better in CJ 1107 or instructor consent. An examination of the basic problems, procedures and needs in the field of security work. A comparison of private agencies, hotels, retail, and industrial enterprises which handle their own security with private and public security organizations. Emphasis is given to the role of private, industrial, and business security systems and their relationship to the criminal justice system.

3310 Survey of Forensic Science Lec. 3 Lab. 0 Cr. 3

A study of those fields of basic and applied science which have been specifically adapted to legal proof. Emphasis will be placed on the procedures used to examine both persons and physical evidence and the rules of admissibility applicable to the results of such procedures.

3390 Contemporary Issues in Criminal Justice and Criminology Lec. 3 Lab. 0 Cr. 3

Prerequisite: Must have 9 hours of credit in criminal justice courses. Examination of the literature and analysis of current issues relevant in criminal justice.

4018 Constitutional Law and Criminal Justice Lec. 3 Lab. 0 Cr. 3

Study of constitutional law and its applicability.

4029 Administration of Criminal Justice Lec. 3 Lab. 0 Cr. 3

An examination of principles of organization, administration and functional interrelation of criminal justice agencies. An evaluation of personnel policies, divisions, operations, management procedures and policies, along with

evaluations of each agency as part of a system.

4518 Correctional Institutions and Management Lec. 3 Lab. 0 Cr. 3
Prerequisite: A grade of "C" or better in CJ 1107 and CJ 2216 or instructor consent. Analysis of the structure and function staffing, prison operations, the convict world, prison violence, and jails.

4991 Directed Study Lec. 3 Lab. 0 Cr. 3
Prerequisite: Fifteen hours of upper level Criminal Justice courses or instructor consent. A survey of current literature and/or research in an area or areas of specific interest within the criminal justice system. Topics may vary.

Early Childhood Education (ECED)

2001 Introduction to Early Childhood Education Lec. 3 Lab. 0 Cr. 3
An introduction to the history, theories, and developmentally appropriate practices of educating the young child.

2002 Curriculum in Early Childhood Education Lec. 3 Lab. 0 Cr. 3
Planning and development of developmentally appropriate curriculum for the young child. Emphasis on environments, activities, materials and interactions for infants and preschool children.

2030T Early Childhood and Elementary Children's Literature Lec. 3 Lab. 0 Cr. 3
Selected sites and topics related to children's literature. Introductory lectures, travel, discussions and reports. This course is designed to provide and extend student experiences with children's literature through study and travel. Noted authors, illustrators, and their works will be examined in the classroom and the studies will be further enriched through on-site visitations to the locations where these individuals lived, worked and were inspired. This course may be used for elective credit only.

2076 ✦ Child Psychology Lec. 3 Lab. 0 Cr. 3
(Also offered as PSYC 2076). Prerequisite: PSYC 2000 or 2060 or consent of instructor. Study of the physical, social intellectual, and emotional development of the child.

2090 Organizing & Operating Early Childhood Education Programs Lec. 3 Lab. 0 Cr. 3
The staff's role and responsibility in organizing and operating Early Childhood Education programs, working with parents in both school and home settings, and investigating community resources.

2999 Practicum in Early Childhood Education Lec. 0 Lab. 3-9 Cr. 1-3
Prerequisite: Open only to ECED majors who have completed major requirement courses, (i.e., education, psychology, kinesiology) and have a GPA of at least 2.0. May be taken for a maximum of 3 semester hours of credit. Must have consent of instructor the semester prior to enrolling. A structured program of supervised observation and/or field experience in early childhood education programs.

Economics (ECON)

2010 ✦ Principles of Macroeconomics Lec. 3 Lab. 0 Cr. 3
Prerequisite: MATH 1021. An introductory study of the nature of economics, economic concepts and problems, economic system, and the role of government. Special emphasis is placed upon the accounting, analytical and policy aspects of national income and product and upon the money and banking system.

2020 ✦ Principles of Microeconomics Lec. 3 Lab. 0 Cr. 3
Prerequisite: MATH 1021. A study of basic economics, exploring theories of production, determination of prices in regulated and unregulated industries, functional distribution, international economics, and problems of economic development.

3035 ✦ Money and Banking Lec. 3 Lab. 0 Cr. 3
Prerequisite: ECON 2010 and 2020. Role of commercial banks, other financial institutions, and the central bank in affecting the performance of the economy; relationships of money and fiscal policy to prices, production, and employment; internal and external effects of U.S. fiscal and monetary policy.

4078 American Economic History Lec. 3 Lab. 0 Cr. 3
Prerequisite: ECON 2010 and 2020. A description and analysis of the principal features of the American economic experience. The colonial relationship with England. The economics of slavery. The industrialization and the urbanization of America. Attention also is given to insight into contemporary problems that can be gained by an examination of our historical experience.

4110 Public Finance Lec. 3 Lab. 0 Cr. 3
Prerequisite: ECON 2010 and 2020. Economic theory applied to the private market and to the

public sector; public goods, efficiency, voting, externalities, principles of taxation, benefit-cost analysis, and policy analyses of current issues.

4320 Environmental Economics Lec. 3 Lab. 0 Cr. 3

Prerequisite: ECON 2010 and 2020. Market failure and government failure, benefit cost analysis, the economics of energy, the efficient allocation of pollution, stationary and mobile sources of air pollution, water pollution, and toxic wastes.

Education
Curriculum and Instruction (EDCI)

1000 Introduction to the Study of Education Lec. 3 Lab. 0 Cr. 3

An introduction to the historical foundations, organization, and administration of American public education. Field experience in multicultural settings in secondary schools. This course is for secondary education majors only. Credit will not be given for both this course and EDAF 2000.

2030 Teaching, Schooling, and Society in the Elementary School Lec. 2 Lab. 2 Cr. 3

Experiences that join theory to practice; teaching as it operates in elementary school culture; a reflective approach to pedagogy; discussions of teaching in the historical and philosophical dimensions of discourse/practice.

2040 Principles and Practices in Secondary Education Lec. 3 Lab. 0 Cr. 3

Designed to assist prospective secondary teachers in learning how to teach. The course includes principles and practices regarding foundations of methods, planning for teaching, guiding learning, and evaluation of students.

2700 Characteristics of Exceptional Children Lec. 3 Lab. 0 Cr. 3

Individual differences of various types of exceptional children; characteristics, educational programs, and resources for treatment.

2900 Teaching Computer Literacy in the Elementary and Secondary Schools Lec. 3 Lab. 0 Cr. 3

Prerequisite: Documented computer literacy as specified in the university general education requirement. Emphasis on assisting elementary and secondary teachers with computer concepts, methodology for teaching computer literacy, and suitable software for classroom use.

3000 Children's Literature Lec. 3 Lab. 0 Cr. 3

Survey of Children's literature across time, genres, and media; focus on wide reading in children's literature and an appreciation of the value of literature for children.

3100 Reading, Writing and Oral Communication in Elementary Education Lec. 3 Lab. 6 Cr. 6

Prerequisite: EDCI 2030. Structures of scientific disciplines for teaching in lower/upper elementary school; strategies, techniques, basic rationales, and materials.

3114 Classroom Management in the Elementary School Lec. 2 Lab. 2 Cr. 3

Techniques for managing student behavior in the elementary classroom using psychological models, behavior modification and the arranged environment.

3125 Materials and Methods in Elementary Science Lec. 2 Lab. 2 Cr. 3

Prerequisite: EDCI 2030. Structures of scientific disciplines for teaching in lower/upper elementary school: strategies, techniques, basic rationales, and materials.

3127 Materials and Methods in Elementary Social Science Lec. 2 Lab. 2 Cr. 3

Prerequisite: EDCI 2030. Structures of the social studies disciplines for teaching in the upper/lower elementary school: strategies, techniques, basic rationales, and materials.

3300 Mathematics Instruction in the Elementary School Lec. 3 Lab. 6 Cr. 6

Prerequisite: MATH 1201 and 1202; EDCI 2030; Structures of mathematical discipline for teaching in lower/upper elementary school; strategies techniques, basic rationales, and materials.

4000 Student Teaching in Elementary Grades Lec. 0 Lab. 35 Cr. 9

Prerequisite: see "Requirements for Student Teaching" Pass-fail grading.

4100 Assessing and Guiding Classroom Reading Instruction Lec. 2 Lab. 2 Cr. 3

Prerequisite: EDCI 3100. Additional training in reading instruction beyond that offered in the basic reading course, EDCI 3100, with emphasis on assessment.

4300 Assessing and Guiding Classroom Mathematics Instruction Lec. 2 Lab. 2 Cr. 3

Prerequisite: EDCI 3300. Additional training in mathematics instruction beyond that offered in the basic mathematics course, EDCI 3300, with emphasis on assessment.

4800 **Teaching in the Multicultural Classroom** **Lec. 3 Lab. 0 Cr. 3**
Strategies and resources for teaching students of cultural diversity in the classroom; development of units and activities of cultural variety.

English (ENGL)

On the basis of a diagnostic test, previous college English (if any), and proficiency in writing, students will be required to take from one to three semesters of freshman composition. The required courses must be taken progressively. **Every student must complete ENGL 1002 which is also prerequisite to all other English courses.** Students who present ACT scores in English which place them in 1002 as the initial course may receive advanced standing credit for ENGL 1001.

0001 **Developmental English I** **Lec. 3 Lab. 0 Cr. 3**
Placement: ACT score as specified in the Placement section of the catalog. ENGL 0001 is a skills improvement course that may not be used as credit for a certificate or a degree. It offers an intensive study of basic English composition and grammar with a focus on the sentence and the paragraph. A grade of "C" or higher is required to advance to ENGL 0002.

0002 **Developmental English II** **Lec. 3 Lab. 0 Cr. 3**
Placement/Prerequisite: ACT score as specified in the Placement section of the catalog or a grade of "C" or higher in ENGL 0001. ENGL 0002 is a skills improvement course that may not be used as credit for a certificate or a degree. It offers an intensive study of basic English composition and grammar with a focus on the paragraph and the essay. A grade of "C" or higher is required to advance to ENGL 1001.

1001 ✦ **English Composition** **Lec. 3 Lab. 0 Cr. 3**
Placement/Prerequisite: ACT score as specified in the Placement section of the catalog or a grade of "C" or higher in ENGL 0002. ENGL 1001 offers an introduction to composition and analysis of the essay and its rhetorical strategies. A grade of "C" or higher required to advance to ENGL 1002.

1002 ✦ **English Composition** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: ENGL 1001. An introduction to poetry, drama, the short story and the novel and to writing the research paper.

1030T **Literature Study Tour (Travel Course) Cr. 1**
Travel to selected sites of literary interest; pre-tour activities and post-tour essay. This course may be used as general elective credit only and may be repeated for up to two hours credit when sites and topics change. Students may not exceed two hours credit in any combination of 1030T travel courses. This course may not be taken concurrently with ENGL 2030T

2001 **Advanced English Composition** **Lec. 3 Lab. 0 Cr. 3**
Theory and practice of exposition, description, and narration.

2002 ✦ **Professional Writing** **Lec. 3 Lab. 0 Cr. 3**
Theory and practice in various types of writing effective documents in the professions with emphasis on composition, rhetorical strategies, discourse and audience analysis, ethical and cultural considerations, and visual design. Writing assignments will include writing effective reports, memos, letters, etc.

2005 **Introduction to Creative Writing** **Lec. 3 Lab. 0 Cr. 3**
Forms of creative writing; practice in writing poetry and short fiction.

2010 **English Grammar** **Lec. 3 Lab. 0 Cr. 3**
Analysis of the sentence and its parts, and discussion of the bases of good usage; reflects both traditional and modern approaches to grammar; of particular interest to prospective English and elementary education majors.

2025 ✦ **Introduction to Fiction** **Lec. 3 Lab. 0 Cr. 3**
Study and appreciation of the short story and the novel.

2027 ✦ **Poetry** **Lec. 3 Lab. 0 Cr. 3**
Introduction to the study and interpretation of poetry, with attention to the various resources of poetic language-figurative language, tone, meter and rhyme, allusion, etc.–and to the capacity of poetry to offer a distinct mode of apprehending the universe.

2029 ✦ **Tragedy and Comedy** **Lec. 3 Lab. 0 Cr. 3**
A comparative study and close reading of examples of tragedy and comedy from the ancient to the modern worlds.

2030T **Literature Study Tour (Travel Course) Cr. 3**
Travel to selected sites of literary interest; pre-tour lectures, discussions, assigned readings and essays.

2031 ✦ **The Novel** **Lec. 3 Lab. 0 Cr. 3**
Introduction to the novel as the distinctively modern contribution to the literary tradition, with particular attention to its role in reflecting and shaping new conceptions of human consciousness and of the individual's relationship to society.

2032 ✦ **Epic** **Lec. 3 Lab. 0 Cr. 3**

A comparative study and close reading of examples of several heroic epics, from the ancient to the modern world.

2084 **Myths, Legends, and Folklore** **Lec. 3 Lab. 0 Cr. 3**

Course will examine myths, legends, and folklore by taking the position that myths, legends, and folklore are the foundation for narrative patterns in literature.

2148 ✦ **Shakespeare** **Lec. 3 Lab. 0 Cr. 3**

A selection of the major plays.

3001 **Writing Professionally in the Arts and Social Sciences** **Lec. 3 Lab. 0 Cr. 3**

Training in writing skills needed by majors in the arts and social sciences. Course will include both theory and practice in producing proposals, research studies, reports, advertising materials, etc.

3002 **Business/Technical Writing** **Lec. 3 Lab. 0 Cr. 3**

Training in skills required of practicing professionals in business and technical fields. Lecture and practical exercises.

3011 **American Poetry** **Lec. 3 Lab. 0 Cr. 3**

A study of American poets and their poetry to the present day.

3020 ✦ **British Literature I** **Lec. 3 Lab. 0 Cr. 3**

A survey of British Literature from the Beginning to 1798.

3022 ✦ **British Literature II** **Lec. 3 Lab. 0 Cr. 3**

A survey of British Literature from 1798 to Present.

3024 **Literary Criticism** **Lec. 3 Lab. 0 Cr. 3**

Skills for reading and writing about literature from a variety of critical perspectives; approaches such as reader response, psychoanalysis, myth, post-colonial and feminist critique, applied to a range of different literary texts.

3070 ✦ **American Literature I** **Lec. 3 Lab. 0 Cr. 3**

A survey of works by significant writers from the Beginning through the Civil War period.

3072 ✦ **American Literature II** **Lec. 3 Lab. 0 Cr. 3**

A survey of works by significant writers from the Civil War period to the Present.

3099 **Special Topics** **Lec. 3 Lab. 0 Cr. 3**

May be taken for a maximum of 6 hours of credit when topics vary. Consult department for topic to be offered. Examination of a particular literary tradition, genre, theme, or regional literature (e.g., the Gothic, the Pastoral, Literature and Childhood, Louisiana Writers).

3220 **Major Themes in Literature** **Lec. 3 Lab. 0 Cr. 3**

May be taken for a maximum of 6 hours of credit when topics vary. Consult department for topic to be offered. Examination of a particular theme (e.g., the city, education, spiritual crisis, quest) in the works of several authors crossing historical and cultural boundaries.

3309 **Advanced Grammar** **Lec. 3 Lab. 0 Cr. 3**

A concentrated study of American English grammar with attention to traditional descriptive and prescriptive grammatical rules and to rhetorical rules.

3311 **History of the English Language** **Lec. 3 Lab. 0 Cr. 3**

Study of the development of the English language from its Indo-European origins to the present. Special attention will be paid to changes in grammar and vocabulary.

3370 ✦ **Major Writers in World Literature** **Lec. 3 Lab. 0 Cr. 3**

This course will examine classic works in translation from Homer to Cervantes, excluding English and American Literature.

3674 ✦ **Survey of African-American Literature** **Lec. 3 Lab. 0 Cr. 3**

Survey of African-American literature in the United States from slave narratives to the present.

4120 **Studies in Major Authors** **Lec. 3 Lab. 0 Cr. 3**

May be taken for a maximum of 6 semester hours of credit when topics vary. Consult department for topic to be offered. Detailed study of works by one or two authors from Spenser and Donne to Joyce and Morrison.

4148 **Studies in Shakespeare** **Lec. 3 Lab. 0 Cr. 3**

May be taken for a maximum of 6 semester hours of credit when topics vary. Attention to the plays. Broad Topics such as Tragedy, Comedy, Romance, or History–or some combination; or more narrow Topics such as Shakespeare and the Nature of Things, Cause and Chance in Shakespeare, The Workings of Villainy in Shakespeare, etc.

4173 **Major Southern Writers** **Lec. 3 Lab. 0 Cr. 3**

A study of one or more major Southern writers and historical and cultural forces that shaped their work. (May be taken for up to 6 credit hours when topics change.)

4231 **Studies in Literature and Film** **Lec. 3 Lab. 0 Cr. 3**

May be taken for a maximum of 6 semester hours of credit when topics vary. Comparative study of literature and film as art forms; literary bases of film; topics such as "Film Authors," "Film and Ideology," Adaptations of Literary Classics," "Film Genres," "Film and Gender."

4674 Major African American Writers **Lec. 3 Lab. 0 Cr. 3**
A study of African-American literature and folklore with a special emphasis on the Black experience in America.

Fine Arts (FIAR)

1001 ✦ Introduction to Fine Arts **Lec. 3 Lab. 0 Cr. 3**
An introduction to the fundamental problems and concepts of art in the fields of design, sculpture, graphics, painting, and ceramics as they relate to the home, community, religion, commerce, and industry. Discussions, lectures, outside readings.

1002 ✦ The Humanism of Arts **Lec. 3 Lab. 0 Cr. 3**
The fundamental problems and concepts of art and music as they relate to the formal periods of history in the western world.

1011 ✦ Art Structure **Lec. 0 Lab. 6 Cr. 3**
The primary study of the disciplines in art with practice in the various media.

1030T Fine Arts Study Tour (Travel Course) Cr. 1
Travel to selected sites of interest in the visual arts; pre-tour activities and post-tour essay. This course may be used as general elective credit only and may be repeated for up to two hours credit when sites and topics change. Students may not exceed two hours credit in any combination of 1030T travel courses. This course may not be taken concurrently with FIAR 2030T.

1371 Introduction to Lithography **Lec. 0 Lab. 6 Cr. 3**
Planographic printing from plates in black and white.

1551 Basic Design **Lec. 0 Lab. 6 Cr. 3**
Design as a basic problem-solving creative activity; project dealing with mechanical and communicative utility.

1661 Introduction to Ceramics **Lec. 0 Lab. 6 Cr. 3**
Studio problems in pottery, glazing, and kiln firing.

1662 Introduction to Ceramics **Lec. 0 Lab. 6 Cr. 3**
Prerequisite: FIAR 1661. Problems in ceramic forming techniques; making of clays and glazes; and kiln firing.

1761 Basic Sculpture **Lec. 0 Lab. 6 Cr. 3**
A development of three-dimensional structures; exercises and experiments relative to theories and techniques; actual projects using appropriate materials and processes; discussions, lectures, slide talks, and outside reading.

1762 Sculpture II **Lec. 0 Lab. 6 Cr. 3**
Studies in sculpture using appropriate materials and processes.

1847 Drawing and Composition **Lec. 0 Lab. 6 Cr. 3**
Basic principles of observation, with emphasis on the graphic analysis and delineation of spacial structure.

1848 Drawing and Composition **Lec. 0 Lab. 6 Cr. 3**
Studies from the live model; introduction of graphic representation, structure, and form.

1849 Introduction to Painting **(See Description) Cr. 3**
Basic studio practice and theory in painting; traditional and modern materials and terminology; value and color experiences involving simple forms in space. Six hours of studio/lecture each week.

2030T Fine Arts Study Tour (Travel Course) Cr. 3
Selected sites and topics. Introductory lectures, travel, discussions, and reports. This course is designed to provide students with an introduction to the great works of art through study and travel to museums. Specific works to be studied will correspond to holdings of museums visited.

2271 Art Education for Elementary Schools **Lec. 2 Lab. 2 Cr. 3**
A critical analysis and evaluation of past and present concepts of art education with a view toward developing a functional art program for the elementary schools of Louisiana. Art materials, techniques, and art activities recommended for use in the elementary school grades. Readings, discussions, and studio activities.

2272 Art Education for Elementary Schools **Lec. 2 Lab. 2 Cr. 3**
Prerequisite: FIAR 2271. A critical analysis and evaluation of past and present concepts of art education with a view toward developing a functional art program for the elementary schools of Louisiana. Art materials, techniques, and art activities recommended for use in the elementary school grades. Readings, discussions, and studio activities.

2440 ✦ **Historical Survey of the**
Arts **Lec. 3 Lab. 0 Cr. 3**
Prehistoric, Near-Eastern. Greek, Roman, and Medieval art.

2441 ✦ **Historical Survey of the**
Arts **Lec. 3 Lab. 0 Cr. 3**
Renaissance to modern art.

2470 ✦ **Survey of 20th Century**
Art **Lec. 3 Lab. 0 Cr. 3**
Modern Art.

2552 **Color Design** **Lec. 0 Lab. 6 Cr. 3**
Color as a functional design element of perception and visual communication.

2655 **Basic Jewelry/**
Metalsmithing **Lec. 0 Lab. 6 Cr. 3**
Piercing, construction, cold connection, soldering, forming, and stone setting; studio problems in bronze, copper, and sterling silver.

2661 **Intermediate**
Ceramics **Lec. 0 Lab. 6-12 Cr. 3-6**
Prerequisite: FIAR 1662. May be repeated for credit for a maximum of 9 sem. hrs. Studio problems in ceramics; formulation of clay bodies and glazes; theories of kiln operation and maintenance.

2879 **Intermediate Drawing and**
Composition **Lec. 0 Lab. 6 Cr. 3**
Prerequisite: FIAR 1848. Emphasis on imaginative composition utilizing the figure, still life, and landscape forms.

2881 **Painting** **Lec. 0 Lab. 6 Cr. 3**
Prerequisite: FIAR 1847 and 1848. Studio problems in still life directed toward conceptual attitudes; analysis of structure and color in composition; individual criticism, class discussion.

2882 **Painting** **Lec. 0 Lab. 6 Cr. 3**
Prerequisite: FIAR 1847 and 1848 and 2881. Studio approaches to abstraction; thematic problems based on the figure and nature forms; synthesizing form and experience; individual criticism, class discussion.

2995 ✦ **Basic Photography** **Lec. 0 Lab. 6 Cr. 3**
Basic photographic concepts and techniques. Practical and expressive application of photographic processes to the visual arts. Lectures, classroom critiques, studio work, outside research.

2996 ✦ **Intermediate**
Photography **Lec. 0 Lab. 6 Cr. 3**
Prerequisite: FIAR 2995. A combination of experimental darkroom lab techniques; continuing development of black and white photography, with emphasis on creative image orientation.

4423 **Early Renaissance**
Painting in Italy **Lec. 3 Lab. 0 Cr. 3**
Consent of instructor. The origins of early development of Italian Renaissance art in Florence and Sienna.

4424 **High Renaissance and Mannerist**
Painting in Italy **Lec. 3 Lab. 0 Cr. 3**
Consent of instructor. The climax and aftermath of Italian Renaissance Art in Florence, Rome, and Venice.

4450 **Nineteenth Century**
European Painting **Lec. 3 Lab. 0 Cr. 3**
Consent of instructor. History of art in European countries from the French Revolution 1789 to 1900. Emphasis on Neo-Classicism, romanticism Realism, Impressionism, Post-Impressionism, and Symbolism.

4451 **Early Twentieth Century**
European Art **Lec. 3 Lab. 3 Cr. 3**
Consent of instructor. History of painting and sculpture in European countries from 1900 to 1960. Emphasis on Fauvism, cubism, Geometric Abstractions, Futurism, Dada, Surrealism, German Expressionism, British Figurative Art, and the School of Paris.

4490 **Independent Study**
in Art History **Lec 3 Lab. 0 Cr. 3**
Consent of instructor. May be taken for a maximum of 6 hours of credit when topics vary.

4841 **Special Studies**
in Painting **Lec. 0 Lab. 6 Cr. 3**
Consent of instructor based on student's portfolio, advanced studio work in a predetermined area of specialization.

4941 **Special Studies**
in Photography **Lec. 0 Lab. 6 Cr. 3**
Consent of instructor. Individual creative research in predetermined area of specialization.

French (FREN)

Students whose curricula require foreign language are urged to schedule a foreign language each semester until the appropriate credit has been earned. Students who select for study a foreign language in which they have some high school credit may take a placement test in that language and be registered at the course level appropriate to their score on the test (regardless of the amount of credit earned in high school). Credits, up to a maximum of 14 semester hours, may be earned by

placement test and posted immediately. For placement purposes, the test is valid for two years. Advanced-standing credit for any course above 2102 must be established by credit examination.

It is recommended that students with foreign language credits earned at another college take the placement test for guidance in scheduling. In the absence of test scores, students with 1-2 semester hours of transfer credit should enter course 1001, 3-7 semester hours enter course 1002, 8-11 semester hours enter course 2102, and 12-14 semester hours enter course 2155.

1001 ✦ **Elementary French I Lec. 4 Lab. 0 Cr. 4**
Basic lexicon and structures of French. Emphasis on communicative language use.

1002 ✦ **Elementary French II Lec. 4 Lab. 0 Cr. 4**
Prerequisite: completion/credit of FREN 1001. Basic lexicon and structures of French. Emphasis on communicative language use.

2030T **Study Tour Lec. 3 Lab. 0 Cr. 3**
Travel to selected sites of French-language cultural and historical significance; pre-tour lectures, activities, discussions, assigned readings and post-tour assignment. This course may be used as general elective credit only and may be repeated for up to six hours credit when sites and topics change.

2067 **Culture and Civilization Lec. 3 Lab. 0 Cr. 3**
(A four week course with 45 contact hours.) Extensive study of the culture and the civilization of one of the countries where the target language is spoken. Specifically designed for teacher certification for teaching of French in elementary school.

2101 ✦ **Intermediate French I Lec. 3 Lab. 0 Cr. 3**
Prerequisite: completion/credit of FREN 1002. Continuation of Elementary French; structures and lexicon of French. Additional emphasis on reading and writing. Supplementary work in language laboratory.

2102 ✦ **Intermediate French II Lec. 3 Lab. 0 Cr. 3**
Prerequisite: completion/credit of FREN 2101. Continuation of Elementary French; structures and lexicon of French. Additional emphasis on reading and writing. Supplementary work in language laboratory.

2155 ✦ **Readings in French Literature Lec. 3 Lab. 0 Cr. 3**
Readings in contemporary French prose. Special emphasis on comprehension as well as oral and written expression in the language.

Geography (GEOG)

1001 ✦ **Human Geography Lec. 3 Lab. 0 Cr. 3**
Courses need not be taken in numerical order. The earth's surface from the standpoint of its physical and cultural regions. Emphasis on the relationship between culture and the physical environment, the distribution of people and their use of the land.

1003 ✦ **Human Geography Lec. 3 Lab. 0 Cr. 3**
Courses need not be taken in numerical order. The earth's surface from the standpoint of its physical and cultural regions. Emphasis on the relationship between culture and the physical environment, the distribution of people and their use of the land.

2001 ✦ **Principles of Physical Geography Lec. 3 Lab. 0 Cr. 3**
Earth and solar system; bases of natural regionalism; weather and climate; landforms; hydrography; vegetation; soils, minerals.

4030 **Geography of Latin America Lec. 3 Lab. 0 Cr. 3**
Prerequisite: GEOG 1001. Physical and cultural geography of Central, South America, and Caribbean with emphasis on social, economic, and political development.

4050 **Historical Geography of the South Lec. 3 Lab. 0 Cr. 3**
Physical and cultural geography of the southern U.S. with emphasis on geographical elements identified with the South; historical development, environment, economy, and culture.

4055 **Geography of Europe Lec. 3 Lab. 0 Cr. 3**
Prerequisite: GEOG 1001. Physical and cultural geography of Europe with emphasis on the environment, historical, development, economies, and cultures.

4070 **Geography of Exploration Lec. 3 Lab. 0 Cr. 3**
Examination of travels, discoveries, cartography, and cultural encounters since the 15th century with emphasis on European exploration of the Americas, Africa, and Asia.

Geology (GEOL)

1001 ✦ **General Geology: Physical Lec. 3 Lab. 0 Cr. 3**
Prerequisite: Eligibility for MATH 1021. Earth materials and land forms; processes at work on

and within the earth.

1003 ✦ **General Geology:**

Historical Lec. 3 Lab. 0 Cr. 3

A study of the origin, constitution, structure, and history of the earth, including the forces and events that have affected and continue to affect its development and the history of living things as recorded in sedimentary environments.

Health Sciences (HESC)

1002 Basic Electrocardiology Lec. 3 Lab. 0 Cr. 3

Prerequisites: Eligible for enrollment in MATH 0002 or higher. This course provides a complete introduction to the principles and techniques involved in electrocardiography. The major concepts included are cardiac anatomy and electrophysiology, arrhythmias, cardiac medications, treatments, and diagnostic testing.

1003 Introduction to the Health Care System Lec. 1 Lab. 0 Cr. 1

(Also offered as NURS 1001). This course is designed to introduce persons with an interest in health care delivery to he health care system. The information in this course will focus on the history of health care. Other areas of interest are the financial aspects of health care, providers of health care, legal and ethical issues of health care, and health care as a profession. Recommended for pre-nursing students and other students interested in health care delivery.

1004 Client Care Interactions Lec. 2 Lab. 0 Cr. 2

Prerequisite: Eligibility for ENGL 1001. This course provides for the study of concepts in client care interactions. The use of communication skills with patients, families, and health team members is stressed. Emphasis is placed on the care giver development of skills to promote positive relationships with clients across the life span.

1005 Phlebotomy Lec. 3 Lab. 12 Cr. 7

Prerequisites: HESC 1003, HESC 1004. Co or prerequisite: HESC 1400 and exemption from or successful completion of REA 0005. The phlebotomy course is designed to prepare a clinical practitioner whose primary function is to obtain, process, and transport blood specimens. Emphasis is on venipuncture and micro-collection techniques. Infection control, safety, total quality management, departmental management, medical-legal issues, and professionalism are topics included to prepare the student to assume the role of the phlebotomist in the medical laboratory. Supervised clinical phlebotomy experience is provided in a variety of health care settings.

Upon satisfactory completion of the course, the student is qualified to participate in national examinations for phlebotomy certification.

1006 Medical Coding I Lec. 3 Lab. 0 Cr. 3

Pre or Corequisite: HESC 1400. This course is designed to provide an overview of CPT and ICD-9-CM coding systems. Emphasis will be placed on the in-depth understanding of ICD-9-CM coding and classification systems in order to assign valid diagnostic and/or procedure codes. Integrated throughout the course will be the development of use of practical situations and critical decision making skills imperative to the professional medical coder.

1007 Medical Coding II Lec. 3 Lab. 0 Cr. 3

Pre-requisites: HESC 1400 and HESC 1006. This course provides an overview fo CPT and ICD-9-CM coding system for procedures in ambulatory care. Emphasis is on development skills needed for completion of the procedure coding for medical billing forms prepared in physician offices, medical-surgical clinics, and other ambulatory facilities. Basic coding rules, regulations, use of symbols, abbreviations, conventions, and guidelines for performance of diagnosis and procedure coding are explored.

1008 Medical Coding III Lec. 2 Lab 3 Cr. 3

Prerequisites: HESC 1006, HESC 1007, and HESC 1400, Pre or Corequisites: HESC 1003, HESC 1004. This course is designed to assist students in developing and understanding advanced CPT and ICD-9-CM coding classification systems in order to assign valid diagnostic and/or procedure codes. Other classifications, nomeclatures, and medical vocabularies are also presented. The laboratory sessions include opportunities for application of coding principles related to reimbursement, the prospective payment system, and ethical issues related to reimbursement. Practice sessions will include coding inpatient and outpatient records, case mix/severity data, and PPS reimbursement methods.

1009 Nonprescription Drug Therapy Lec. 3 Lab. 0 Cr. 3

A course designed to provide students with a foundation of knowledge in the treatment of common illnesses and ailments with nonprescription drug therapy. The major concepts include defining the health problem being treated, selecting the appropriate drug product for treatment, drug administration, drug

classification, drug ingredients, drug interactions, contraindications, and other essentials for helping individuals self treat. Open to students in all majors.

1100 Emergency Medical Technician - First Responder Lec. 2 Lab. 3 Cr. 3

Prerequisite: Exemption from or successful completion of REA 0005; eligibility criteria as established by LA Bureau of Emergency Medical Services. The First Responder course provides a study of the emergent conditions of victims of a medical emergency in the pre-hospital environment. A patient assessment model focusing on airway, breathing, and circulation is implemented in determining the seriousness of a patient's condition or extent of injury. Assessment findings are utilized to administer basic emergency care with a limited amount of emergency equipment until the Emergency Medical Services (EMS) team arrives. Emphasis is placed on scene stabilization and initial management of mass casualty incidents, skills fundamental to the role of First Responder.

Course content adheres to the U.S. Department of Transportation EMT - First Responder curriculum and prepares students for Louisiana state certification (required) and National Registry Examination for First Responder (optional).

1102 Pharmacy Practice Lec. 2 Lab. 2 Cr. 3

Prerequisite: ENGL 1001, HESC 1003, HESC 1004, HESC 1400, PHSC 1001. Pre or Corequisite: HESC 1115. This course provides instruction in the technical procedures for preparing and dispensing drugs in the hospital, retail, and long-term care settings when under the direct supervision of a registered pharmacist. Topics include drug packaging and labeling, dispensing techniques, non-sterile compounding, quality assurance, pharmacy law, billing and inventory management, and the future of pharmacy practice.

1110 Sterile Products/Lab Lec. 2 Lab. 2 Cr. 3

Pre requisites: HESC 1101, HESC 1102, HESC 1115, HESC 1116 and HESC 1151. This course provides an introduction to aseptic techniques, admixture preparation, incompatibility and stability, immunization and irrigation solutions, total parenteral nutrition, and chemotherapy.

1115 Pharmacology for Health Sciences Lec. 3 Lab. 0 Cr. 3

Prerequisite: ENGL 1001, HESC 1003, HESC 1400, PHSC 1001. Pre or Corequisite: HESC 1101. A course designed to provide the allied health student with a foundation in drug related information. The major concepts include allied health roles in drug administration, classification of drugs, methods of drug administration, and physiological responses to drug administration.

1116 Pharmaceutical Dosage Calculations and Measurements Lec. 3 Lab. 0 Cr. 3

Prerequisite: ENGL 1001, HESC 1003, HESC 1004, HESC 1400, PHSC 1001. Pre or Corequisite: HESC 1101, HESC 1102, HESC 1115. A course designed to provide the allied health student with a foundation in dosage calculations and measurements. The major concepts are to instruct and train the individual to calculate properly medication (drugs) dosages and measurements. This course is designed to present clear and concise methods of dosage calculation and afford the student the opportunity to practice these skills utilizing practical situations.

1151 Pharmacy Clinical Practice I Lec. 0 Lab 16 Cr. 5

Prerequisite: ENGL 1001, HESC 1003, HESC 1004, HESC 1400, PHSC 1001. Pre or Corequisite: HESC 1102, HESC 1115, HESC 1116. This course provides the Pharmacy Technician clinical student the opportunity to work in pharmacy settings under the supervision of a registered pharmacist. Emphasis is placed on effective communication, understanding pharmacy operations, and dispensing of medications. The student will be assigned to retail and hospital pharmacies for approximately 240 hours.

1152 Pharmacy Clinical Practice II Lec. 0 Lab 16 Cr. 5

Prerequisite: HESC 1101, HESC 1102, HESC 1115, HESC 1116 and HESC 1151. Pre or Corequisites: HESC 1202, HESC 1110, HESC 1111, HESC 1113, HESC 1120. This course provides continued opportunity to work in a pharmacy setting under the supervision of a registered pharmacist. The student will be assigned to retail and hospital pharmacies for approximately 250 hours. This is a continuation of Health Science 1151.

1200 Emergency Medical Technician - Basic Lec. 4 Lab. 6 Cr. 6

Prerequisite: Based on ACT scores, applicants must be exempt from or have completed REA 0005. EMT-Basic provides a study of the emergent conditions of victims of a medical emergency in the prehospital environment. A patient assessment model based on medical and trauma information is implemented in determining

the nature and seriousness of a patient's condition or extent of injury. Assessment findings are utilized to administer emergency care appropriate to the patient's condition. Correlation of theory and clinical is provided in area emergency departments, obstetrical units, and medical-surgical units.

Course content adheres to the U.S. Department of Transportation EMT-Basic curriculum and prepares students for the National Registry Examination of EMT-Basic.

1202 Applied Clinical Pharmacology Lec. 3 Lab. 0 Cr. 3
Prerequisite: HESC 1101, HESC 1102, HESC 1115, HESC 1116 and HESC 1151. This course presents major drug classifications with specific drug pototypes for each classification. The emphasis will be on drug therapy as it relates to different patient populations. Also included are therapeutic and adverse effects, patient information, and compliance.

1400 Health Care Language Applications Lec. 3 Lab. 0 Cr. 3
Prerequisite: Eligibility for ENGL 1001. A comprehensive study of the complex language of health care, medical terminology, with practical applications. The body systems approach provides the learner with a strong foundation for interpretation of case reports, operative and diagnostic lists, autopsy records, laboratory and radiology reports. To broaden the understanding of applications of health care language, basic underlying concepts of anatomy, physiology and pathology are integrated with related medical terminology.

History (HIST)

1001 ✦ History of Western Civilization Lec. 3 Lab. 0 Cr. 3
A general survey of ideas, trends and institutions in Western Civilization from the earliest times to the Reformation.

1003 ✦ History of Western Civilization Lec. 3 Lab. 0 Cr. 3
A general survey of the developments of Western Civilization from the Reformation to the present.

1007 History and Ethics of Nursing Lec. 3 Lab. 0 Cr. 3
(Also offered as NURS 1007) This course focuses on the development of nursing as a health care profession and on ethical issues that an individual should consider in the practice of that profession.

2011 ✦ English History Lec. 3 Lab. 0 Cr. 3
A survey of English history from Roman times to 1500.

2012 ✦ English History Lec. 3 Lab. 0 Cr. 3
A survey of English history from 1500 to the present time.

2030T Historical/Cultural Study Tour (Travel Course) Cr. 3
Selected sites and selected topics. Travels, lectures, readings, and reports. This course may be used as elective credit only and may be repeated for up to six hours credit when sites and topics change.

2055 ✦ American History Lec. 3 Lab. 0 Cr. 3
Survey of American history from the earliest times to 1865. ***Prerequisite for all advanced courses in American history.***

2057 ✦ American History Lec. 3 Lab. 0 Cr. 3
Survey of American history from 1865 to present. ***Prerequisite for all advanced courses in American history.***

2061 ✦ African-American History Lec. 3 Lab. 0 Cr. 3
Social, cultural, and economic role of African-Americans in the U.S. from 1619 to the Present.

2920 Selected Topics Lec. 3 Lab. 0 Cr. 3
Prerequisite: The applicable survey course or permission of the instructor. An examination of topics significant to understanding human history. Course content and subject varies; may be taken twice for credit.

3071 ✦ Louisiana History Lec. 3 Lab. 0 Cr. 3
General survey of the political, economic, social, and cultural development of Louisiana.

4015 Nineteenth Century Europe Lec. 3 Lab. 0 Cr. 3
The period 1815-1919 with emphasis on revolutions, nationalism, industrialism, imperialism and World War I.

4017 Contemporary Europe, 1919 to the Present Lec. 3 Lab. 0 Cr. 3
Twentieth century developments including economic depression, struggling democracies, fascism, World War II, Cold War and search for union.

4050 Colonial America and American Revolution: 1607-1783 Lec. 3 Lab. 0 Cr. 3
The Cultural, economic, political, and military developments in the thirteen colonies and the struggle for American Independence.

4054 Jacksonian America: 1824-1848 **Lec. 3 Lab. 0 Cr. 3**
The rise of Andrew Jackson, political party development, reform movements, slavery, sectional crisis, and Mexican War.

4055 Civil War **Lec. 3 Lab. 0 Cr. 3**
Also offered as MILS 4055. A study of the causes of the Civil War, the secession crisis, military campaigns, leadership and homefront.

4060 Age of Roosevelt **Lec. 3 Lab. 0 Cr. 3**
From the inaugural of FDR to the surrender of Japan; the Great Depression and the New Deal; the thirties' search for an American culture; the road to Pearl Harbor; America in World War II, at home and abroad.

4065 History of Contemporary America **Lec. 3 Lab. 0 Cr. 3**
History of America since 1945, focusing on domestic affairs.

4066 Military History of the United States **Lec. 3 Lab. 0 Cr. 3**
Also offered as MILS 4066. Military policy and campaigns, organizations of armed forces and war economies.

4071 The Antebellum South **Lec. 3 Lab. 0 Cr. 3**
Economics, social, intellectual, and political development of the South to 1860.

4072 The New South **Lec. 3 Lab. 0 Cr. 3**
Political, economic, social, and intellectual history of the South since 1877.

4073 Louisiana to 1815 **Lec. 3 Lab. 0 Cr. 3**
Political, economic, and social development of early Louisiana.

4130 World War II **Lec. 3 Lab. 0 Cr. 3**
Global crisis of the 1930's: Axis and Allied Strategies; major military campaigns, great power diplomacy; life on the home fronts; Holocaust; espionage and resistance; the experience of combat; social, political, and scientific consequences.

4132 Contemporary World History **Lec. 3 Lab. 0 Cr. 3**
The history of the world from 1945 to present, emphasizing the transformations of international relations, the international economy and the developing world.

4197 Special Studies in United States History **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: Consent of history faculty. May be repeated for credit when topics vary.

4901 Independent Study **Lec. 0 Lab. 0 Cr. 3**
Open to advanced students of high academic standing. Reading and research on selected topics.

Interpretation (INTR)

1320 American Sign Language I **Lec. 3 Lab. 0 Cr. 3**
An introductory course in American Sign Language (ASL) designed to develop basic receptive and expressive language skills. Emphasis will be on development of appropriate handshapes and movements necessary to produce accurate signs. Students will learn basic language structures, acquire a working vocabulary and knowledge of sentences, phrases, and appropriate non-manual behaviors in ASL. The use of the voice by instructor and students is held at a minimum.

Kinesiology (KINS)

ACTIVITY COURSES **Lec. 0 Lab. 3 Cr. 1**
(unless otherwise specified)

Beginning Activities

1121 Fencing
1123 Archery
1124 Tennis
1125 Golf
1126 Gymnastics
1127 Modern Dance
1129 Badminton
1130 Bowling
1131 Ballet
1132 Ballroom Dancing
1134 Folk and Square Dancing
1135 Water Exercises
1136 Swimming
1140 Scuba Diving
Prerequisite: KINS 1136 or consent of instructor. Basic techniques and procedures in Skin and Scuba Diving. Three hours laboratory per week.
1142 Aerobic Conditioning
1146 Weight Training
1152 Dance Theatre
May be taken twice for credit. *Admission by audition. Participation in the performing modern dance theatre. Four hours laboratory per week.*
1153 Jazz Dance
1157 Aerobic Dance
1161 Self Defense

Intermediate Activities

1223 Archery
Prerequisite: consent of instructor.
1224 Tennis
Prerequisite: consent of instructor.
1226 Gymnastics
Prerequisite: Successful completion of KINS 1126 or consent of instructor.
1257 Aerobic Dance
Prerequisite: Successful completion of KINS 1157 the preceding semester (excluding summer session) or consent of instructor.
1261 Self Defense II
Prerequisite of successful completion of KINS 1161 or consent of instructor.

Advanced Activities
1337 Senior Life Saving
1338 Water Safety Instructor's Course
1340 Advanced Scuba Diving
Prerequisite: Basic Open Water Certified Diver. Advanced techniques and procedures in scuba diving. Three hours laboratory per week.

PROFESSIONAL COURSES

1600 Personal and Community Health Lec. 3 Lab. 0 Cr. 3
A survey of current problems affecting the overall health of the individual and society in our modern environment.

1999 Special Topics Lec. 0 Lab. 3 Cr. 1
May be taken for a maximum of four (4) semester hours credit when topics vary. Three (3) hours of lab. Identification, analysis, and practice of skills and techniques fundamental to exercise/sports, rules, strategies, and appropriate safety procedures.

2500 Human Anatomy Lec. 3 Lab. 0 Cr. 3
Prerequisite: Sophomore standing. For Health and Physical Education majors and minors. Structural human anatomy and its application basic to an understanding of problems in athletic and corrective physical therapy.

2501 Principles and History of Physical Education Lec. 3 Lab. 0 Cr. 3
A study of the scientific, philosophical and historical foundations of health education and physical education.

2502 Tests and Measurements in Physical Education Lec. 3 Lab. 0 Cr. 3
An introduction to testing and evaluation in physical education. Current research in the field and statistical techniques involved.

2504 Principles of Conditioning Lec. 1 Lab. 1 Cr. 2
Course designed to present current methods and concepts of training and conditioning. The place of physical fitness activities in the physical education program. Current trends in fitness programs, participation in selected activities designed to promote fitness, planning programs for physical fitness for educational institutions and social agencies.

2507 Methods and Materials in Physical Education for the Elementary School Lec. 3 Lab. 3 Cr. 4
For elementary school teachers. Progressively graded programs of physical activities for elementary schools.

2508 Practicum in the Teaching of Individual Sports Lec. 0 Lab. 3 Cr. 1
Prerequisite: competency in the activity to be taught and permission of instructor. Credit may be repeated three times if experience represents different individual sports for a maximum of three credit hours.

2513 Introduction to Motor Learning Lec. 3 Lab. 0 Cr. 3
Principles of motor learning and improvement of physical performance; role of growth and development; and emotional and psychosocial phenomena in motor learning and performance.

2520 The Coaching of Gymnastics Lec. 1 Lab. 2 Cr. 2
Prerequisite: successful completion of HPRD 1126 or HPRD 1226 and consent of instructor. Principles and techniques of coaching gymnastics: Organization and administration of practice and various levels of competition.

2540 Introducing Physical Education for All Handicapped Children Lec. 3 Lab. 0 Cr. 3
Laws affecting the handicapped; the motor abilities of handicapped children and how programs can be adjusted to suit their needs and interests.

2601 First Aid Lec. 3 Lab. 0 Cr. 3
Designed to teach the lay person proper techniques required to complete CPR, rescue breathing, Heimlich Maneuver, and wound care. Information regarding shock, poisoning, fractures, and unconsciousness is included for adults, children, and infants.

2602 Methods and Materials in Health Education for the Elementary School Lec. 3 Lab. 0 Cr. 3

Designed for elementary education majors. Preparation of the elementary school teacher in skills, attitudes, and knowledge requisite to health education of children.

2800 Beginning Modern Dance Lec. 0 Lab. 3 Cr. 1
For majors or minors in physical education.

3510 Techniques and Methods of Teaching Physical Education (K-12) Lec. 2 Lab. 3 Cr. 3
Microteaching and field experience required. Current teaching methods and materials in physical education; teaching styles, aids, and formulation of lesson and unit plans.

3515 Exercise Physiology Lec. 3 Lab. 0 Cr. 3
Prerequisite: KINS 2500, 2504. Basic physiological concepts of the muscular, metabolic, cardiorespiratory systems; behavior of each system in relation to exercise; determination of normal and abnormal physical responses to exercise; development of a philosophy of scientific inquiry.

3660 Stress Management Lec. 3 Lab. 0 Cr. 3
Sources of stress; evaluation of stress-related diseases; techniques for promoting stress reduction; prevention of stress-related diseases.

Mass Communication (MC)

2000 ✦ Introduction to Mass Media Lec. 3 Lab. 0 Cr. 3
Introduction of Mass Media will highlight the various aspects of American mass media including development, structure, problems and opportunities. Mass communications theory and processes will also be addressed.

2151 Media Writing Lec. 1 Lab. 4 Cr. 3
Prerequisite: "C" or better in ENGL 1002; typing ability of about 35 words per minute. Practice in locating sources of news, interviewing, and note taking; evaluating and organizing facts; writing basic kinds of news stories, using wire service style.

Mathematics (MATH)

0001 Preparation for College Mathematics Lec. 5 Lab. 0 Cr. 5
Not for degree credit. Five semester hours will be added to the degree program of any student taking this course. Operations with whole numbers, decimals, fractions, signed numbers, polynomials, linear equations, applications of linear equations, fractional equations, special products and factoring, algebraic fractions, simultaneous linear equations, exponents, and radicals. Pass/No Credit.

0002 Intermediate College Algebra Lec. 3 Lab. 0 Cr. 3
Prerequisite: MATH 0001 or placement by ACT (see placement section of this catalog) or consent of the department. Not for degree credit. Three semester hours will be added to the degree program of any student taking this course. Linear equations and inequalities, polynomials and factoring, algebraic fractions, operations on radical expressions, rational exponents, quadratic equations, simultaneous linear equations, ratio and proportion, and graphing.

1021 ✦ College Algebra Lec. 3 Lab. 0 Cr. 3
Prerequisite: A grade of "C" or better in MATH 0002, placement by ACT (see placement section of this catalog), or consent of the department. Functions and graphs, exponential and logarithmic functions, analytic geometry, systems of equations and inequalities. A graphing calculator is required. (A grade of "C" or better is required to advance to any higher numbered math course.)

1022 ✦ Plane Trigonometry Lec. 3 Lab. 0 Cr. 3
Prerequisite: A grade of "C" or better in MATH 1021, placement by ACT (see placement section of this catalog), or consent of the department. Trigonometric functions and identities, inverse trigonometric functions, graphs, solving triangles and equations, complex numbers, and polar coordinates of equations and inequalities.

1100 ✦ The Nature of Mathematics Lec. 3 Lab. 0 Cr. 3
Prerequisite: A grade of "C" or better in MATH 1021 or consent of the department. Not for science, engineering, or mathematics majors. For students who desire an exposure to mathematics as part of a liberal arts education. Sets, logic, number systems, counting techniques, probability and statistics.

1201 Number Sense and Open-Ended Problem Solving Lec. 3 Lab. 0 Cr. 3
Prerequisite: MATH 1100. Primarily for students in elementary education. (A grade of "C" or better is required by education majors.) Cardinality and integers; decimal representation and the number line; exploratory data analysis; number sense; open-ended problem solving strategies; and written communication of mathematics.

1202 Geometry, Reasoning, and Measurement Lec. 3 Lab. 0 Cr. 3

Prerequisite: MATH 1201. Primarily for students in elementary education. (A grade of "C" or better is required by education majors.) Synthetic and coordinate geometry in two and three dimensions; spatial visualization and counting procedures; symmetries and tilings; history of geometry; written communication of mathematics.

1431 ✦ **Calculus with Business and Economic Applications** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: A grade of "C" or better in MATH 1021 or consent of the department. Differential and integral calculus of algebraic, logarithmic, and exponential functions with applications to business and economics.

1550 ✦ **Analytic Geometry and Calculus I** **Lec. 5 Lab. 0 Cr. 5**

Prerequisite: MATH 1022 or consent of the department. Credit will be given for only one of the following: MATH 1431, MATH 1550. Analytic geometry, limits, derivatives, integrals, and their applications.

1552 ✦ **Analytic Geometry and Calculus II** **Lec. 5 Lab. 0 Cr. 5**

Prerequisite: MATH 1550. Techniques of integration, parameter equations, polar coordinates, infinite series, vectors in the plane, and introduction to differential equations and partial derivatives.

2011 ✦ **General Statistics** **Lec. 3 Lab. 0 Cr. 3**

(Also offered as PSYC 2011 and STAT 2011.) Prerequisite: A grade of "C" or better in MATH 1021 or consent of the Department of Mathematics and Physical Sciences. Graphical display of data, measures of central tendency and variability, sampling theory, the normal curve, standard scores, Student's T, Chi Square, correlation techniques, inferences, and hypotheses testing.

2040 **Fundamentals of Mathematics** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 1550. Introduction to techniques of mathematical proofs, sets, logic, relations and functions, induction, cardinality, and properties of real numbers.

2057 **Multidimensional Calculus** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 1552. Vectors and geometry in space, functions of several variables, partial derivatives, multiple integrals, and applications.

2065 **Elementary Differential Equations** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 1552. A beginning course in ordinary differential equations with emphasis on solving linear differential equations.

2085 **Linear Algebra** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 1552. Systems of linear equations, vector spaces, linear transformations, matrices, and determinants.

2220 **Geometry** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 1021. A study of selected topics in plane, solid, and analytical geometry.

2901 **Selected Topics in Mathematics** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: Consent of the department. May not be repeated for credit.

3355 **Probability** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 2057. Introduction to probability, emphasizing concrete problems and applications, random variables, expectation, conditional probability, law of large numbers, central limit theorem, and stochastic processes.

4005 **Geometry** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 2040. The foundations of geometry, including work in Euclidean and non-Euclidean geometries.

4031 **Advanced Calculus I** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 2057 and 2085, or equivalent. Differential and integral calculus of real and vector-valued functions of several real variables.

4032 **Advanced Calculus II** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 4031. Vector integral calculus, Stokes' theorem, series, orthogonal functions, selected related topics.

4036 **Complex Variables** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 2057. Analytic functions, integration, power series, residues, and conformal mapping.

4039 **Introduction to Topology** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 2040 with a grade of "C" or better. Set theory and logic, properties of topological spaces, connectedness, compactness, countability, separation axioms, and other selected topics.

4056 **Mathematical Statistics** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 3355. Experimental design, sampling methods, non-parametric methods, hypothesis testing, and regression.

4065 **Numerical Analysis I** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 2057 and basic programming ability. Newton's method, Lagrange interpolation, least-squares approximation, orthogonal polynomials, numerical differentiation and integration, Gaussian elimination.

4181 **Number Theory** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 2057 or MATH 2085. Divisibility, Euclidean algorithm, prime numbers, congruences, and topics such as Chinese Remainder Theorem and sums of integral squares.

4200 **Abstract Algebra** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 2040 or MATH 2085. Elementary properties of sets, relations, mappings, integers, groups, subgroups, normal subgroups, quotient groups, homomorphisms, automorphisms, and permutation groups; elementary properties of rings.

4340 **Partial Differential Equations** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 2065 and 2085. First-order partial differential equations and systems, canonical second-order equations, Green's functions, method of characteristics, properties of solutions, and applications.

4997 **Senior Seminar for General Studies** **Lec. 2 Lab. 0 Cr. 2**

Prerequisite: Senior standing required and at least 6 hours of mathematics courses numbered 3000 or above. A capstone course required of all General Studies majors with a Mathematics concentration. Each student will undertake several math related reading projects, make oral presentations, and write an expository paper on a specific body of knowledge representing a mathematical strand, theme, or topic. Credit will be given for one of the following: MATH 4997, MATH 4998.

4998 **Senior Seminar** **Lec. 2 Lab. 0 Cr. 2**

Prerequisite: Senior standing required and at least 9 hours of mathematics courses numbered 3000 or above. A capstone course required of all Liberal Studies Mathematics majors. Each student will undertake several math related reading projects, make oral presentations, and write an expository paper on a specific body of knowledge representing a mathematical strand, theme, or topic. Credit will be given for only one of the following: MATH 4997, MATH 4998.

Military Science (MILS)

1011 **Introduction of Officership I** **Lec. 1 Lab. 2 Cr. 3**

Introduction to the Reserve Officer Training Corps (ROTC) and the customs, traditions, organization and role of the U.S. Army; basic map reading and land navigation skills, basic first aid, military writing skills.

1012 **Introduction of Officership II** **Lec. 1 Lab. 2 Cr. 3**

Prerequisite: MILS 1011 or permission of instructor. Introduction to radio communications; reinforcement of map reading and land navigation skills; introduction to small unit tactics and operations; introduction to the Constitution, leadership and officer ethics.

2161 **Officer Leadership and Management Roles I** **Lec. 2 Lab. 1 Cr. 3**

Pre-requisite: MILS 1011 and 1012 or consent of instructor. Map symbols and reference systems; land navigation; small unit tactics; exercises in written and oral communication; first aid.

2162 **Officer Leadership and Management Roles II** **Lec. 2 Lab. 1 Cr. 3**

Pre-requisite: MILS 1011, 1012, and 2161 or consent of instructor. Planning, organizing, and managing the activities of small organizations, time management, tactics, Army organization.

3011 **Advanced Military Science I** **Lec. 3 Lab. 1 Cr. 4**

Prerequisite: MILS 2161 and 2162 or equivalent. Advanced map reading, communications, operation orders, squad tactics, and leadership. Field training exercises and social activity.

3012 **Advanced Military Science II** **Lec. 3 Lab. 1 Cr. 4**

Prerequisite: MILS 2161 and 2162 or equivalent. Advanced study in preparation for small unit operations, offensive and defensive tactics, practical exercises in oral and written communication and seminars in preparation for summer field camp. Field training exercises and social activity.

3014 **Practicum in Advanced Summer Camp** **Lec. 0 Lab. 3 Cr. 1**

Prerequisite: MILS 3011 and 3012 or equivalent. Field exercises and training in a military setting.

4011 **Advanced Military Science III** **Lec. 3 Lab. 1 Cr. 4**

Prerequisite: MILS 3011 and 3012 or equivalent. Staff organization and functions, techniques of command and leadership, decision making, problem solving, and advanced communications. Field training and social event.

4012 **Advanced Military Science IV** **Lec. 3 Lab. 1 Cr. 4**

Prerequisite: MILS 3011 and 3012 or equivalent. Professional development, career options, ethics and leadership, unit administration, standards of

conduct, military justice, war and morality, transition to the officers corps. Field exercises and social event.

4055 Civil War Lec. 3 Lab. 0 Cr. 3
Also offered as HIST 4055. A study of the causes of the Civil War, the secession crisis, military campaigns, leadership and homefront.

4060 Practicum in Military Staff Planning and Execution Lec. 1 Lab. 0 Cr. 1
Practical exercises in military staff planning, leadership, and ROTC activities.

4066 Military History of the United States Lec. 3 Lab. 0 Cr. 3
Also offered as HIST 4066. Military policy and campaigns, organizations of armed forces and war economies.

Music (MUS)

1751 ✦ Music Appreciation Lec. 3 Lab. 0 Cr. 3
Open to all students. A general introduction to Western concert music with emphasis on great works of the nineteenth century. Includes how to listen to classical music; concert-going; and stylistic characteristics of nineteenth century romanticism in music.

1752 ✦ Music Appreciation Lec. 3 Lab. 0 Cr. 3
Open to all students. A general introduction to Western concert music with emphasis on great works of the twentieth century. Includes the state of the arts in contemporary America; new trends in music such as the performer versus the computer/synthesizer; and stylistic characteristics of twentieth century music.

1784 University Chorus Lec. 0 Lab. 3 Cr. 1
(Course may be repeated for credit four times) Enrollment in this course by permission of the instructor. Intensive study of choral music of all periods, including preparation for public performance.

2040 Summer Musical Lec. 0 Lab. 3 Cr. 1 Performance Laboratory
Prerequisite: Consent of instructor. Participation as a performer in the LSUA Summer Theatre musical production(s). May be taken four times, for a maximum of four semester hours credit.

3020 American Musical Theatre Lec. 3 Lab. 0 Cr. 3
(Also offered as THTR 3020.) Development of the American Musical in its cultural, theatrical, and social contexts from its beginning to the present day; elements of musical theatre focusing on the works of composers, lyricists, designers, directors, choreographers, and performers.

Nursing (NURS)

1000 Nursing Assistant Lec. 3 Lab. 4 Cr. 5
Prerequisites: Based on ACT scores, applicants must be exempt from or have completed REA 0005. "NURS 1000" is designed to prepare the student to function in the role of nursing assistant in hospitals, long-term care facilities, and home health agencies. Development of knowledge, attitude, and skills necessary to provide safe, effective care for clients in a variety of settings is stressed. The nursing laboratory and the clinical setting provide an opportunity for the student to function under the supervision of a professional nurse and cooperatively with members of the health care team.

1001 Introduction to the Health Care System Lec. 1 Lab. 0 Cr. 1
(Also offered as HESC 1003) This course is designed to introduce persons with an interest in health care delivery to the health care system. The information in this course will focus on the history of health care. Other areas of interest are the financial aspects of health care, providers of health care, legal and ethical issues of health care, and health care as a profession. Recommended for pre-nursing students and other students interested in health care delivery.

1002 Pharmacological Dosages and Solutions Lec. 1 Lab. 0 Cr. 1
Prerequisite: Eligibility to take MATH 1021, Pre- or Corequisite: NURS 1016. An in-depth analysis of the process of calculating medication dosages and solutions for adults and children. Content progresses from calculation of intramuscular and intravenous medications and solutions. Problems commonly encountered in the practice of Nursing related to dosages and solutions will be included with an emphasis on drug response as influenced by drug dosage.

1005 Intravenous Therapy for Licensed Practical Nurses Lec. 1.2 Lab. 1.5 Cr. 2
Prerequisite: LPN or NURS 1016. Emphasis will be placed on promoting, maintaining and restoring fluid and electrolyte balance in the client through the use of the nursing process. The principal concepts and mechanisms of fluid and electrolyte balance will be reviewed followed by assessment of fluid balance and rationale for replacement therapy. Appropriate nursing interventions for initiating, maintaining and

discontinuing IV therapy utilizing a variety of access devises will be discussed. Additionally, complications of IV therapy will be stressed including early recognition and interventions to treat and prevent complications. The learning lab will provide opportunity for demonstration and practice of skills presented.

1006 Toward Healthy Aging Lec. 3 Lab. 0 Cr. 3

Toward Health Aging introduces developmental concepts and principles of later adult life. Biological, cognitive, psychological, and sociological influences will be analyzed. Emphasis is placed on assisting and meeting health care demands of any elderly individuals in need of assistance in meeting self-care deficits and needing to acquire self-care skills. This course may be taken by any student as a general elective and will not satisfy any nursing degree requirements.

1007 History and Ethics of Nursing Lec. 3 Lab. 0 Cr. 3

(Also offered as HIST 1007). This course focuses on the development of nursing as a health care profession and on ethical issues that an individual should consider in the practice of that profession.

1009 Health Care of Women Lec. 3 Lab. 0 Cr. 3

Prerequisites: ENGL 1001 or permission of instructor. Provides for the overall study of women as members of society, as well as their diseases and/or childbearing functions. Attention will be focused on the contemporary woman as a health care consumer. Major concepts to be explored include assessment of woman's health using a holistic approach; psychophysical health concerns of the contemporary woman; lifestyle concerns of the contemporary woman; social, economics, and environmental hazards; and an overview of major reproductive and gynecologic concerns.

1010 Understanding Medical Terminology Lec. 1 Lab. 0 Cr. 1

This course is designed to enable the student to understand complex medical terms by learning the three hundred prefixes and suffixes most commonly used in medical terminology. Knowledge of these root elements will enable the student to understand the most frequently used medical terms. Audionyms and visual symbols will be used to introduce each root element.

1011 Techniques for Professional and Personal Survival Lec. 3 Lab. 0 Cr. 3

Course designed to provide the student with a better understanding of self and others, insight into one's own personality, a feeling of self-esteem and self-confidence, and techniques to improve relationships, cope with stress, and reduce anxiety.

1014 Human Lactation Lec. 3 Lab. 0 Cr. 3

Prerequisite: ENGL 1001 or approval of the instructor. An in-depth overview of human lactation and breastfeeding. This course will focus on the historical and sociocultural context of infant feeding, the anatomical and biological aspects, prenatal, perinatal and postnatal periods associated with breastfeeding, and contemporary issues surrounding lactation.

1016 Fundamentals of Nursing Lec. 4 Lab. 6 Cr. 6

Prerequisites: Successful completion ("C" or better) of ENGL 1001, CHEM 1001, MATH 1021, and BIOL 1161. "Fundamentals of Nursing" introduces basic concepts and principles of nursing care. Emphasis is placed upon the development of fundamental nursing skills, techniques, and knowledge that provide a foundation upon which to build future nursing courses. The philosophy, conceptual framework of nursing program, professional ethics, nursing process, mental health concepts, communication techniques, principles of nutrition, pharmacology, and medical-surgical asepsis are introduced. Clinical laboratory experience is in the nursing laboratory and in health agencies, providing the student the opportunity to develop nursing skills by giving direct patient care.

1017 Accelerated Guided Study for the LPN Lec. 4 Lab. 6 Cr. 6

Prerequisite: CHEM 1001, ENGL 1001, ENGL 1002, MATH 1021, PSYC 2000, BIOL 1162. STAT 2011 or PSYC 2070 may be taken as a prerequisite or as a corequisite but must be taken prior to entering NURS 2050/2052. Proof of LPN Licensure. An introduction to the philosophy and conceptual framework of the curriculum of LSUA Department of Nursing. The nursing process and other concepts basic to the practice of nursing are explored. These include: professional role socialization, adaptive and maladaptive responses to stress and application of the nursing process in mental health settings. Required activities in the nursing laboratory experience provide for refinement and enhancement of nursing skills and techniques. A weekly six hour clinical experience is provided in a mental health setting. This course is designed to be the first nursing course taken by the LPN.

1022 Medical Surgical Nursing I Lec. 4 Lab. 12 Cr. 4

Prerequisite: NURS 1016 or successful completion ("C" or better) of a credit examination administered by the Department of Nursing, STAT 2011, PSYC 2000 and BIOL 1162. "Medical Surgical Nursing I" provides for the study of patients with well defined medical-surgical problems. The nursing process is used to focus on needs of patients responding to stress and illness. Major concepts and theories of selected medical-surgical disorders include interruption in tissue integrity, pain, altered ventilatory function, derangement of body fluids, and mechanisms of shock. To facilitate transfer of these concepts to clinical performance, nursing care of patients adapting to the stress related to surgical intervention, cancer, burns, and dermatological disorders, and those experiencing oxygen deprivation will be provided in general hospital medical-surgical units. Orientation to surgery and recovery rooms will be provided.

1024 Psychiatric-Mental Health Nursing Lec. 4 Lab. 12 Cr. 4

Prerequisite: NURS 1016 or successful completion ("C" or better) of a credit examination administered by the Department of Nursing, STAT 2011, PSYC 2000, and BIOL 1162. "Psychiatric-Mental Health Nursing" is designed as a study of man's adaptive and maladaptive responses to stress throughout the life cycle. The principal focus of the course is on the utilization of the nursing process with clients in mental health settings which provide secondary care. Particular emphasis is given to the use of techniques of communication which are appropriate for one-to-one psychotherapeutic nurse-patient relationships. The concepts of stress-adaptation, basic human needs and developmental processes are interwoven in the structure of the course, and an eclectic view of other relevant contemporary theories is presented. Guided clinical laboratory experiences are provided.

2048 Nursing Perspectives Lec. 2 Lab. 0 Cr. 2

(Fall, Spring, & Summer) Prerequisites: NURS 1022, 1024. "Nursing Perspectives" surveys nursing history and presents current issues, problems, and emerging trends. Concepts explored include legal aspects, professional organizations, and role transition from student to practitioner. Responsibilities of the registered nurse and management skills related to the delivery of direct patient care are included in this theory course.

2050 Maternal and Neonatal Care Lec. 4 Lab. 12 Cr. 4

Prerequisite: NURS 1022, 1024, ENGL 1002, BIOL 1162, and PSYC 2070. An eight-week course. This course is designed to facilitate learning about pregnancy, labor, delivery, and the postpartal period and the neonate. Through the application of growth and development principles and the use of the nursing process, students identify stressors, promote health and adaption in women, their families, and the neonate. Included in discussions are concepts of nutrition, communication, cultural diversity, roles of the nurse, levels of care, legal/ethical principles, and professional values as they relate to adaptive/maladaptive responses in women, their families, and the neonate. Emphasis is placed on the nurse's role in assisting women and their families to adapt to stress associated with the antepartal, intrapartal, postpartal, and neonatal periods. Clinical nursing care experiences are provided in appropriate primary and secondary settings which include: the newborn nursery, labor and delivery, operating room, recovery room, and postpartal units as well as the antepartal clinic, the family planning clinic and perinatal education classes.

2052 Nursing Care of the Child Lec. 4 Lab. 12 Cr. 4

Prerequisites: NURS 1022, 1024, ENGL 1002, and PSYC 2070. "Nursing Care of the Child" is designed to facilitate learning about the uniqueness of caring for children and their families, expanding the student's ability to assess, analyze, plan, implement, and evaluate nursing care. Through the application of growth and development concepts and the use of the nursing process, students identify stressors and promote health in children and their families. Additionally, the concepts of nutrition, communication, cultural diversity, roles of the pediatric nurse, legal-ethical principles, levels of care, and professional values are discussed in relation to adaptive and maladaptive responses in children and their families. Clinical experiences are provided in primary, secondary and tertiary care settings.

2056 Medical-Surgical Nursing II Lec. 4 Lab. 12 Cr. 4

Prerequisites: NURS 2050, 2052, and BIOL 2051. Pre- or Corequisites: NURS 2048 and NURS 2080. "Medical-Surgical Nursing II" provides a study of adult patients with well-defined stressors related to alterations of gaseous transport, body

regulation and integration. The nursing process is utilized to formulate nursing care plans and to apply theoretical knowledge to patient situations. Expected outcomes of nursing intervention are evaluated. Correlation of theory and clinical is provided on medical-surgical units in community facilities.

2058 Medical-Surgical Nursing III Lec. 4 Lab. 16 Cr. 5
Prerequisite: NURS 2056. Pre- or Corequisites: NURS 2048 and NURS 2080. "Medical Surgical Nursing III" provides a study of adult patients experiencing well defined stressors related to alterations of sensorimotor function, gastric absorption, intestinal and urinary elimination, and reproductive functions. In addition to strengthening the role of the associate degree nurse as a provider of care through the use of the nursing process, the role as manager of groups of patients is emphasized. The clinical experience and independent study is designed to provide the student with opportunities for self-growth in nursing and to encourage the beginning transition from student to professional nurse. The clinical experience is provided on medical-surgical nursing units in community facilities.

2080 Pharmacology Lec. 3 Lab. 0 Cr. 3
Prerequisite: NURS 1022, 1024, LPN and BIOL 1162; RN; or permission of instructor. This course is designed to give the nursing student thorough and practical information about classifications and groups of drugs, their therapeutic action(s), indications, interactions (including foods) and side effects. The focus is placed on the nursing assessment, implementation (including calculation and conversion of dosages), client teaching and evaluation in regard to drug therapy.

2090 Health Assessment Lec. 2 Lab. 0 Cr. 2
Prerequisites: Enrollment in clinical nursing courses or LPN status. "Health Assessment" provides for the development of techniques in basic physical assessment, history taking, and recording. Both normal and abnormal findings as well as age and cultural variations will be encountered.

2092 Comprehensive Nursing Lec. 3 Lab. 0 Cr. 3
Prerequisite: NURS 2058, Registered Nurse, or Registered Nurse Applicant. The focus of this nursing elective is to provide a comprehensive study of concepts of clinical areas which are incorporated into integrated nursing practice. The course is designed to provide for further application of nursing concepts to complex clinical situations. Self assessment activities and data from RN job analysis studies will permit course participants to identify areas of weakness and strength. Not for Degree credit.

Paralegal/Legal Assisting (PRLG)

1001 Introduction to Paralegal Studies Lec. 3 Lab. 0 Cr. 3
An introductory course in paralegal studies/legal assisting; the role and skills of the paralegal/legal assistant.

2000 Law Office Management Lec. 3 Lab. 0 Cr. 3
Prerequisite: PRLG 1001 or consent of instructor. An overview of the fundamentals of law office management including personnel relations, timekeeping, billing, financial management, docket control systems, and law library maintenance. The course will also focus on legal ethics, client relations, and professional responsibility.

2130 Civil Litigation Lec. 3 Lab. 0 Cr. 3
An introduction to Civil Litigation, including case preparation, discovery, pleading and motions, trial and post-trial proceedings.

2132 The Judicial Process Lec. 3 Lab. 0 Cr. 3
Also offered as CJ 2132. An examination of the role, function, and structure of the courts and their relationship to the criminal justice system.

2230 Legal Research and Writing I Lec. 3 Lab. 0 Cr. 3
Prerequisite: A grade of "C" or higher in ENGL 1002. An overview of basic techniques and methods of legal research; practice in writing various legal documents and proper legal citation forms.

2231 Legal Research and Writing II Lec. 3 Lab. 0 Cr. 3
Prerequisite: A grade of "C" or higher in PRLG 2230. An overview of basic techniques and skills needed for the use of legal references; practice and guidance in legal writing, analysis, and evaluation.

2999 Selected Topics in Paralegal Studies Lec. 3 Lab. 0 Cr. 3
May be taken more than once for credit when topic changes.

Pharmaceutical Marketing (PHM)

4001 Principles of

Managed Care **Lec. 3 Lab. 0 Cr. 3**
Prerequisites: BIOL 1161, BIOL 1162, HESC 1400, HESC 1115, HESC 1202, BUS 3200, BUS 3401. Pre- or co-requisite: BUS 4423. This course is designed to introduce the student to the various forms of managed care in the health care industry and their impact on the pharmaceutical industry. Students will learn the various strategies and marketing practices for successful business practices within the managed care market.

4101 **Pharmaceutical Laws and Regulations** **Lec. 3 Lab. 0 Cr. 3**
Prerequisites: BIOL 1161, BIOL 1162, HESC 1400, HESC 1115, HESC 1202, BUS 3200, BUS 3401. Pre- or co-requisite: BUS 4423. This course is designed to introduce the student to the various laws and regulations governing the pharmaceutical industry. The course focuses on FDA regulation beginning with product development and continuing to the regulations and guidelines governing prescription drug promotion and associated marketing practices.

4201 **Pharmaceutical Product Management** **Lec. 3 Lab. 0 Cr. 3**
Prerequisites: BIOL 1161, BIOL 1162, HESC 1400, HESC 1115, HESC 1202, BUS 3200, BUS 3401. Pre- or co-requisite: BUS 4423. This course is designed to introduce the student to the management of both new market drug entries and established pharmaceutical product brands. The course covers such topics as market research, sales strategy, pricing considerations, sales force marketing and advertising.

4301 **Pharmaceutical Marketing I** **Lec. 2 Lab. 2 Cr. 3**
Prerequisites: BIOL 1161, BIOL 1162, HESC 1400, HESC 1115, HESC 1202, BUS 3200, BUS 3401. Pre- or co-requisite: BUS 4423. This course is designed to introduce the student to the basics of marketing pharmaceutical drug products. The student is introduced to marketing aids and strategies of the pharmaceutical industry and will learn the task of specific product detailing.

4302 **Pharmaceutical Marketing II** **Lec. 0 Lab. 12 Cr. 3**
Prerequisite: PHM 3401. This course is designed to introduce the student to the sales and marketing techniques utilized by American pharmaceutical companies and to the current practices in the treatment of specific disease states. This course allows the student to enter into a preceptorship with pharmaceutical drug representatives and provides the student clinical clerkships in local hospitals.

Philosophy (PHIL)

1000 **✦ Introduction to Philosophy** **Lec. 3 Lab. 0 Cr. 3**
Major works from the philosophic tradition as they examine questions such as the ground and status of knowledge (epistemology); the nature of truth and Being, and the meaning and status of nature (metaphysics); principles of political life and law, ancient and modern (political philosophy); the nature of virtue: right, good, and human excellence (moral philosophy).

1021 **✦ Introduction to Philosophy: Elementary Logic** **Lec. 3 Lab. 0 Cr. 3**
No special background presupposed. Formal and informal reasoning: traditional Syllogistic logic, mod' em deductive logic, and scientific

method in the natural and social sciences.

2020 ✦ **Ethics** **Lec. 3 Lab. 0 Cr. 3**

Classical and modern theories of right and good, freedom and obligation, and rights and duties; consideration of the ground for sound moral judgment. Includes works of philosophers such as Plato, Aristotle, Cicero, Aquinas, Machiavelli, Mill, and Kant.

2025 **Bioethics** **Lec. 3 Lab. 0 Cr. 3**

Defining health and disease; deciding on rights, duties, and obligations in the patient-physician relationship; abortion and the concept of a person; defining and determining death; euthanasia and the dignity of death; allocation of medical resources, both large-scale and small-scale; experimentation with fetuses, children, prisoners, and animals; genetic testing, screening, and interference.

2033 ✦ **History of Ancient and Medieval Philosophy** **Lec. 3 Lab. 0 Cr. 3**

Introduction to philosophy through a study of some of the main writings of classical and medieval philosophy.

2035 ✦ **History of Modern Philosophy** **Lec. 3 Lab. 0 Cr. 3**

Introduction to philosophy through a study of some of the main writings of Modern philosophy.

3020 **Special Topics in Philosophy** **Lec. 3 Lab. 0 Cr. 3**

Special Topics in Philosophy may be taken for up to six (6) credit hours when topics vary.

Physical Science (PHSC)

1001 ✦ **Physical Science I** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: Eligibility for MATH 0002. A non-technical survey course covering a broad range of topics in the field of chemistry and physics. It is not intended for students who wish to pursue further work in chemistry or physics, and may not be substituted for basic courses covering these areas of science.

1002 ✦ **Physical Science II** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: PHSC 1001. A non-technical survey course in the physical sciences. Topics are taken primarily from the fields of astronomy, chemistry, and meteorology. Credit will not be given for both this course and any other college level astronomy.

1003 ✦ **Physical Science Laboratory** **Lec. 0 Lab. 2 Cr. 1**

Prerequisite: Credit in PHSC 1001. Laboratory course in the fundamentals of physical science.

Physics (PHYS)

COREQUISITES: A student may not continue in a course if the corequisite is dropped prior to the last day of the mid-semester examination period.

1001 **Principles of Physics** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: Eligibility for MATH 1021. A study of basic principles of mechanics, heat, sound and electro-magnetism with emphasis on applications in the health professions. Degree credit will not be awarded for both this course and 2001 or 2101. Three hours of lecture each week. Not for science and engineering majors.

2001 ✦ **General Physics I** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: MATH 1022. Non-calculus physics for students in all medical curricula and for students in certain curricula in agriculture, forestry, home economics, arts and sciences, education and business. A study of principles and applications of mechanics, heat, and sound.

2002 ✦ **General Physics II** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: PHYS 2001. A study of principles and applications of light, electricity and magnetism, and topics in modern physics.

2101 ✦ **General Physics for Technical Students I** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: Credit or registration in MATH 1552. For students majoring in mathematics, chemistry, physics, and some areas of engineering. Calculus and vector analysis are used in the study of mechanics, heat, and sound.

2102 ✦ **General Physics for Technical Students II** **Lec. 3 Lab. 0 Cr. 3**

Prerequisite: PHYS 2101 and credit in MATH 1552. Calculus and vector analysis are used in the study of light, electricity and magnetism, and topics in modern physics.

2108 ✦ **General Physics Laboratory I** **Lec. 0 Lab. 3 Cr. 1**

Prerequisite: Credit for or registration in PHYS 2001 or 2101. Laboratory course to accompany PHYS 2001 or 2101.

2109 ✦ **General Physics Laboratory II** **Lec. 0 Lab. 3 Cr. 1**

Prerequisite: Credit for or registration in PHYS 2102 or 2002. Laboratory course to accompany PHYS 2102 or 2002.

Political Science (POLI)

1001 ✦ **Fundamental Issues of Politics** **Lec. 3 Lab. 0 Cr. 3**
An introduction to the central questions at issue in politics, with special emphasis on their significance for the American government.

2051 ✦ **American Government** **Lec. 3 Lab. 0 Cr. 3**
A survey of the principles, structures, processes, and functions of American government with emphasis on the national government.

2056 ✦ **Louisiana Government** **Lec. 3 Lab. 0 Cr. 3**
A survey of state and local political tendencies in Louisiana with special emphasis on political development after 1812.

2901 **Internship** **(Internship) Cr. 1-2**
Supervised work in national, state or local government or private agencies concerned with public policy designed to provide practical experience in government, politics, and administration. Interns must also attend discussions with the Faculty Coordinator and read assigned materials. Registration with consent of Faculty Coordinator only. See Liberal Arts Division office for selection criteria. May be repeated once for a maximum of 4 hours credit.

4000 **Special Topics in American Politics** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: POLI 2051 and consent of instructor. May be repeated for a maximum of 6 semester hours of credit when topics vary.

4036 **The American Presidency** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: POLI 2051 or equivalent. The presidency in the American political system; emphasis on process of presidential selection, evolving role of the president, politics of the executive apparatus of the presidency, and presidential interaction with other political institutions and actors.

4039 **Southern Politics** **Lec. 3 Lab. 0 Cr. 3.**
The American South in the American political system; analysis of the unique role of the region's politics and government in historical perspective and in contemporary American government.

4081 **History of Political Theory from Plato to More** **Lec. 3 Lab. 0 Cr. 3**
Ancient and Medieval political thought.

4090 **Special Topics in Political Theory** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: Consent of instructor. May be repeated for a maximum of 6 semester hours credit when topics vary.

4996 **Readings Course** **Lec. 0 Lab. 0 Cr. 3**
Prerequisite: Consent of instructor. Supervised reading and research in an assigned field of political science.

4997 **Readings Course** **Lec. 0 Lab. 0 Cr. 3**
Prerequisite: Consent of instructor. Supervised reading and research in an assigned field of political science.

Psychology (PSYC)

1075 **Psychology of Death, Dying and Bereavement** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: ENGL 1001 or consent of instructor. An applied survey course with particular emphasis on humanistic perspectives, adjustment mechanisms, self growth, and development of a personal philosophy of death. Discussion of the historical, legal, medical and moral aspects of death, the psychological process of dying, and bereavement and grief. This course may be taken only as a general elective, and will satisfy neither psychology degree requirements nor psychology electives.

2000 ✦ **Introduction to Psychology** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: ENGL 1001. A survey course with emphasis on introducing the student to the understanding, prediction, and control of behavior.

2004 ✦ **Psychology of Adjustment** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: PSYC 2000 or 2060 or consent of the instructor. An introduction to the study of adjustment mechanisms in normal adults with emphasis upon personal, social and vocational adjustment, plus a survey of broad areas of abnormal behavior.

2011 ✦ **General Statistics** **Lec. 3 Lab. 0 Cr. 3**
(Also offered as MATH 2011 and STAT 2011.) Prerequisite: A grade of "C" or better in MATH 1021 or consent of the Department of Mathematics and Physical Sciences. Graphical display of data, measures of central tendency and variability, sampling theory, the normal curve, standard scores, Student's T, Chi Square, correlation techniques, inferences, and hypotheses testing.

2040 **Social Psychology** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: three hours of psychology or sociology. Survey of cultural forces as they affect attitudes, social learning, perception, and the

communication of the individual and the group.

2060 ✦ **Educational**

Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: ENGL 1001. Principles of learning, motivation, development, and evaluation as related to the educative process.

2070 ✦ **Developmental**

Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: ENGL 1001; and PSYC 2000 or 2060, or consent of instructor. A life span survey of psychological changes (social, emotional, & intellectual) in development from conception to death.

2076 ✦ **Child Psychology Lec. 3 Lab. 0 Cr. 3**
(Also offered as ECED 2076) Prerequisite: PSYC 2000 or 2060 or consent of the instructor. Study of the physical, social, intellectual, and emotional development of the child.

2078 **Adolescent Psychology Lec. 3 Lab. 0 Cr. 3**
Prerequisite: PSYC 2000 or 2060 or consent of the instructor. Study of the physical, social, intellectual, and emotional behaviors of the adolescent.

3017 **Elementary Experimental**

Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: PSYC 2000 or 2060 and 2011; or consent of instructor. Lecture and laboratory beginning course in applying the scientific method to the problems of psychology.

3032 **Principles and Theories**

of Learning Lec. 3 Lab. 0 Cr. 3
Prerequisite: PSYC 2000 or 2060 or consent of instructor. A survey of current theories of learning.

3081 ✦ **Personality**

Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: PSYC 2000 or 2060 or consent of instructor. A study of major theories of personality.

3140 **Advanced Social**

Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: PSYC 2040 or consent of instructor. A study of the nature of social behavior, social stimulation, and response; a psychological analysis of society and social institutions.

4001 **Ethical, Legal, and Professional Issues**

in Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: PSYC 2000 or 2060 or consent of instructor. A review of the ethical standards and legal mandates governing the research and professional practice of psychology.

4008 **History of Modern**

Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: Six hours of psychology. A historical survey of psychology with special reference to schools of psychology.

4020 **Introduction to**

Psychometrics Lec. 3 Lab. 0 Cr. 3
Prerequisite: PSYC 2000 or 2060 or consent of instructor. Test construction, standardization, validation, intelligence, clerical, mechanical, and spatial aptitude feats; interests and personality tests; test batteries.

4034 **Physiological**

Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: PSYC 2000 or 2060 or consent of instructor. An intensive study of the functioning of the nervous system with respect to sensation, perception, learning, and motivation.

4082 **Introduction to Abnormal**

Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: PSYC 2000 or 2060 or consent of instructor. A study of the nature and development of abnormal personality and behavior.

4900 **Senior Seminar in**

Psychology Lec. 3 Lab. 0 Cr. 3
Prerequisite: Senior standing. A recapitulation of the various theoretical orientations and perspectives in the field of psychology, including current issues in the field.

Radiologic Technology (RADT)

1000 **Introduction to**

Radiology Lec. 1 Lab. 0 Cr. 1
Introduction to Radiography. A survey of basic principles and practices of radiography with hospital radiology department observation.

1001 **Introduction to Radiology**

Technology Lec. 2 Lab. 0 Cr. 2
Course Pre or Corequisites: ENGL 1001, BIOL 1161. An introduction to the principles and practices of radiography in the delivery of health care. Concepts explored include the historical and professional perspectives, trends in health care delivery system, legal and ethical considerations, imaging process, radiographic preparation and examinations, safety principles, communications, and client management techniques.

1002 Radiographic Image

Production I Lec. 2 Lab. 3 Cr. 3
Course Prerequisites: ENGL 1001, BIOL 1161, RADT 1001. Course Corequisites: BIOL 1162 , RADT 1004. A study of radiation concepts and principles including x-ray properties, basic x-ray equipment, principles of x-ray production, x-ray interactions, prime factors of exposure, exposure control systems, and technical factors that influence and control image production quality. The laboratory provides opportunities for demonstrations with phantoms and practice laboratories.

1004 Radiographic

Practicum I Lec. 2 Lab. 12 Cr. 5
Course Pre or Corequisites: ENGL 1001, BIOL 1161, BIOL 1162; Corequisites: RADT 1001, RADT 1002. Classroom and clinical experiences designed to provide students with fundamental understanding of the radiological examination of the chest, abdomen, upper and lower extremities, and shoulder girdle. Emphasis on operation of equipment, performance of darkroom and office procedures, patient care management, application of radiation protection precautions, and general radiographic process, and evaluation. Skills practice with a phantom in the radiographic laboratories and skills performance in the actual clinical setting are included.

1005 Radiographic

Practicum II Lec. 0 Lab. 16 Cr. 4
Course Prerequisites: RADT 1001, RADT 1002, RADT 1004, MATH 1021 Course Corequisites: RADT 1006, RADT 1007. Clinical performance of basic skills in radiology with emphasis on preparation of the patient, room, and equipment for fluoroscopic, mobile, surgical, emergency/trauma and general radiographic procedures.

1006 Radiographic Image

Production II Lec. 2 Lab. 3 Cr. 3
Course Prerequisites: RADT 1002, BIOL 1162, RADT 1004, ENGL 1002, MATH 1021. Course Corequisites: RADT 1005, RADT 1007. The comprehensive study of technical factors and variables that affect the photographic and geometric quality are analyzed. The focus is on methods of processing with related practical application; design and construction requirements for development, processing, and veiling. Practice in the radiographic laboratories provides competency building in sensitometric measurements and processor monitoring.

1007 Radiographic

Procedures I Lec. 2 Lab. 3 Cr. 3
Course Prerequisites: RADT 1002, BIOL 1162, RADT 1004, ENGL 1002, MATH 1021. Course Corequisites: RADT 1005, RADT 1006. A study of radiographic procedures with emphasis on quality (technical and positional accuracy) radiography of the head, thorax, pelvic girdle, and vertebral column. Provides a foundation in performance of mobile, surgical and trauma radiography, fluoroscopic anc contrast media examinations. The skills practice phanton in the radiographic laboratories.

1008 Radiobiology Lec. 2 Lab. 0 Cr. 2
Course Prerequisites: RADT 1005, RADT 1006, RADT 1007, PSYC 2000, STAT 2011. Course Corequisites: Phys 1001, RADT 1010. An in-depth study of radiation protection safety practices and Radiobiology, including radiologic measurements, quantities, units, detection devices, radiation effects, dose limits and calculations, protective measures, equipment and shielding, federal and state regulations.

1010 Radiographic

Practicum III Lec. 1 Lab. 12 Cr. 4
Course Prerequisites: RADT 1005, RADT 1006, RADT 1007. Pre or Corequisites: PSYC 2000, STAT 2011. Corequisites: RADT 1008. This course is designed to provide for the continued development and application of clinical competencies with emphasis on patient care and performance of general radiographic procedures, emergency/trauma, mobile, surgical, fluoroscopic and contrast media procedures, and corresponding film evaluation. Skills practice occurs with phantom in the radiographic laboratories and performance in actual clinical setting.

2002 Radiographic Special Imaging

Technology Lec. 3 Lab. 0 Cr. 3
Course Prerequisites: Phys 1001, RADT 1008, RADT 1010. Course Corequisites: RADT 2004, RADT 2007. A study of specialized imaging techniques and utilization of therapeutic equipment with emphasis on accessory devices, x-ray circuitry and rectification, image intensifies fluoroscopy, body section radiography, macro radiography, mammography, digital imaging, thermography.

2004 Radiographic

Procedures II Lec. 2 Lab. 3 Cr. 3
Course Prerequisites: Phys 1001, RADT 1008, RADT 1010. Course Corequisites: RADT 2002, RADT 2007. An in-depth study of advanced imaging and radiological procedures involving of

all body systems; basic pharmacology, venipuncture, advanced contrast media emanations, pelvimetry, mammography, computed tomography, scanograms, pediatric radiography, and foreign body localization. Laboratory sessions provide for use of computerized programs and model reviews.

2007 Radiographic Practicum IV Lec. 0 Lab. 20 Cr. 5
Course Prerequisites: RADT 1008, RADT 1010. Course Corequisites: RADT 2002, RADT 2004. The laboratory and clinical practice in the application of general radiographic procedures, including emergency/trauma, mobile surgical, fluoroscopic procedures, contrast media, angiography, cardiac catheterization, CT and MRT. Includes skills practice with phantom in the radiographic laboratories, and skills performance in the actual clinical setting with emphasis on special imaging modalities.

2010 Radiographic Pathology Lec. 2 Lab. 0 Cr. 2
Course Prerequisites: RADT 2002, RADT 2004, RADT 2007, PSYC 2070. Course Corequisites: RADT 2012, RADT 2032. A study of disease processes and their radiographic manifestations. Emphasis on radiographic anatomy, physiology, pathology, and evaluation of radiographic quality with related exposure considerations.

2012 Radiographic Practicum V Lec. 0 Lab. 24 Cr. 6
Course Prerequisites: RADT 2002, RADT 2004, RADT 2007. Course Corequisites: RADT 2010, RADT 2032. The clinical practice in the integration and application of all clinical skills including production of diagnostic radiographs, patient management, and performance of radiographic procedures with proficiency, and use independent judgement. Students are provided opportunities to demonstrate radiation safety practices, effective communication, performance of radiological procedures utilizing appropriate supplies and accessory devices. Rotations will be provided in radiation oncology, nuclear medicine and ultrasound.

2032 Radiographic Seminar Lec. 2 Lab. 0 Cr. 2
Course Prerequisites: PSYC 2070, RADT 2002, RADT 2004, RADT 2007. Course Corequisites: RADT 2010, RADT 2012. A course study which permits selected study of topics related to the professional practice of radiologic technology and review materials in preparation for the American Registry of Radiological Technologists examination.

Reading (REA)

0003 Developmental Reading I Lec. 3 Lab. 0 Cr. 3
For students whose standardized test (Nelson-Denny Reading) indicates a grade equivalent of 8.9 or below. Not for degree credit. Intense work with functional reading skills including word recognition, comprehension, structural analysis, phonetic analysis. PASS/No Credit.

0005 Developmental Reading II Lec. 3 Lab. 0 Cr. 3
Prerequisite Developmental Reading I or placement on standardized reading test (Nelson-Denny) of grade equivalent of at least 9.0 but less than 12.0. Not for degree credit. Intensive work with comprehension and vocabulary. PASS/No Credit.

Religion (REL)

1003 ✦ Introduction to Religion Lec. 3 Lab. 0 Cr. 3
Introduction to the study of religion as an academic discipline, including ways of being religious; religious experience; function of religious scriptures, beliefs, and rituals; nature of religious stories; role of religion in society and for individuals.

1005 ✦ Introduction to New Testament Lec. 3 Lab. 0 Cr. 3
Introduction to the history, religion, and literature of early Christianity from about 30-150 CE, with emphasis on writings of the New Testament. The course will focus on the way Christianity arose out of the Jewish religion and the way it spread in the Greco-Roman world. The course also introduces students to modern methods of critical analysis and interpretation in New Testament scholarship.

2025 ✦ World Religion Lec. 3 Lab. 0 Cr. 3
Survey of Western religions, including Judaism, Christianity, and Islam; and Eastern religions, including Hinduism, Buddhism, and the religions of China and Japan. The course will also include discussion of oral religions and alternative paths.

2030T Religion Study Tour Lec. 3 Lab. 0 Cr. 3
Travel to selected sites of religious interest. Course includes pre- and post-tour lectures, reading assignments, discussions; and post-tour writing assignment.

3010 A Study of the Holocaust Lec. 3 Lab. 0 Cr. 3
An introduction to the Holocaust that examines its history and process of its development and implementation, and its meaning and implications for the 21st century.

3101 American Judaism Lec. 3 Lab. 0 Cr. 3
An examination of the many factors, which have helped to shape the American Jewish experience (from Biblical beginnings to the present day).

3104 Ancient Hebrew Prophets Lec. 3 Lab. 0 Cr. 3
An examination of the Biblical prophets, their historical contexts, their messages, and their relevance for the 21st century.

3300 Seminar in Women and Religion Lec. 3 Lab. 0 Cr. 3
The role of women in religion from its beginning to the present. This course will examine ways in which religion has endorsed the exclusion of women from full participation in both sacred and secular power, as well as the ways in which women have broken through institutional barriers.

4010 History of Christian Thought to the 16th Century Lec. 3 Lab. 0 Cr. 3
Prerequisites: English 1001 and 1002. A study of the development of Christian thought from the first century until the Reformation. This course will consider institutionalization of the Christian church and the development of Christian thought. The course will also explore political and cultural influence on major writers of the era.

4125 The History of Ancient Israel Lec. 3 Lab 0 Cr. 3
An examination of the origins and development of ancient Israel and the implications for an understanding of current events.

4227 Contemporary Christian Thought Lec. 3 Lab. 0 Cr. 3
Major Theologians and theological movements of the 20th century including neo-orthodox theology as well as liberation, Latin American, African American, and feminist theologies.

4236 Studies in Literature and Religion Lec. 3 Lab. 0 Cr. 3
May be taken for a maximum of 6 hours of credit when topics vary. Analysis of literature from religious perspectives. Representative topics include religious thought and contemporary literature, American Literature, or Southern Literature; Major novels and religious thought; or specific authors such as Flannery O'Connor, John Updike or Toni Morrison.

Social Work (SOWK)

2000 Introduction to Social Work Lec. 3 Lab. 0 Cr. 3
An introduction to and overview of the profession of social work. An examination of the value, knowledge, and skill bases of social work from a generalist perspective. Overview of general systems theory. Human diversity in social work practice.

2090 Social Work as a Social Institution Lec. 3 Lab. 0 Cr. 3
This course will describe the historical background of approaches to social welfare in Europe and the United States. The student will be introduced to the more important contemporary programs in the United States and the major policy issues of concern to the profession of social work from a historical perspective.

Sociology (SOCL)

2001 ✦ Introductory Sociology Lec. 3 Lab. 0 Cr. 3
A survey of major subject areas and principles of sociology.

2091 Selected Topics in Sociology Lec. 3 Lab. 0 Cr. 3
May be taken for credit twice if topics vary.

2092 Dynamics of Family Violence Lec. 3 Lab. 0 Cr. 3
The study of family violence including child, spouse and elderly abuse and their impact on society.

2093 Aging in American Society Lec. 3 Lab. 0 Cr. 3
A survey of social and cultural aspects of aging with particular emphasis upon American Society and the problems encountered by older persons.

2094 Deviance Lec. 3 Lab. 0 Cr. 3
An introduction of the study of deviance in American Society, its implications, functions, and dysfunctions.

2501 ✦ Current Social Problems Lec. 3 Lab. 0 Cr. 3
Contemporary social problems and their consequences for mankind, with special emphasis on the American society.

2505 Marriage and Family Relationships Lec. 3 Lab. 0 Cr. 3
Current issues and trends in marriage and family

relationships. (May not count toward satisfying the 31-hour requirement for concentration in sociology at LSU-Baton Rouge).

3501 Sociology of Deviance Lec. 3 Lab. 0 Cr. 3

Sociological theories of deviant behavior; supporting research on mental illness, crime, sexual deviance, drug abuse, and suicide.

3605 Collective Behavior Lec. 3 Lab. 0 Cr. 3

Sociological analysis of noninstitutionalized group behaviors: crowds, public, panics, fads, hostile outbursts and social movements.

4401 The Family Lec. 3 Lab. 0 Cr. 3

The family as a social institution.

4461 Criminology Lec. 3 Lab. 0 Cr. 3

Crime, the criminal justice system and penology.

4531 The Aged in Contemporary Society Lec. 3 Lab. 0 Cr. 3

Social, demographic, psychological, cultural, and health factors related to the aging process in contemporary society.

Spanish (SPAN)

See note on foreign language placement and credit policy above the listings of French courses.

1000 Survival Spanish for Criminal Justice Lec. 1 Lab. 0 Cr. 1

Basic one-way communication of phrases, commands and questions utilized in law enforcement.

1001 ✦ Elementary Spanish I Lec. 4 Lab. 0 Cr. 4

Basic lexicon and structures of Spanish. Emphasis on communicative language use.

1002 ✦ Elementary Spanish II Lec. 4 Lab. 0 Cr. 4

Prerequisite: completion/credit of SPAN 1001. Basic lexicon and structures of Spanish. Emphasis on communicative language use.

1030T Spanish Study Tour Lec. 1 Lab. 0 Cr. 1

Travel to selected sites of Spanish cultural and historical significance; pre-tour lectures, activities, discussions, assigned readings and post-tour essay. This course may be used as general elective credit only and may be repeated for up to two hours credit when sites and topics change. Students may not exceed two hours credit in any combination of 1030T Travel Courses. This course may not be taken concurrently with SPAN 2030T.

2030T Spanish Study Tour Lec. 3 Lab. 0 Cr. 3

Travel to selected sites of Spanish cultural and historical significance; pre-tour lectures, activities, discussions, assigned readings and post-tour essay. This course may be used as general elective credit only and may be repeated for up to six hours credit when sites and topics change. This course may not be taken concurrently with SPAN 1030T.

2101 ✦ Intermediate Spanish I Lec. 3 Lab. 0 Cr. 3

Prerequisite: completion/credit of SPAN 1002. Continuation of Elementary Spanish; structures and lexicon of Spanish. Additional emphasis on reading and writing. Supplementary work in language laboratory.

2102 ✦ Intermediate Spanish II Lec. 3 Lab. 0 Cr. 3

Prerequisite: completion/credit of SPAN 2101. Continuation of Elementary Spanish; structures and lexicon of Spanish. Additional emphasis on reading and writing. Supplementary work in language laboratory.

2155 ✦ Readings in Spanish Literature Lec. 3 Lab. 0 Cr. 3

Prerequisite: completion/credit of SPAN 2102. Interpretative reading of Spanish texts; development of competency in written Spanish.

Speech (SPCH)

1050 Voice and Diction Lec. 3 Lab. 0 Cr. 3

A study of the speaking process, emphasizing articulation and pronunciation through application of basic phonetics.

1061 ✦ Speech Fundamentals Lec. 3 Lab. 0 Cr. 3

An introduction to the basic concepts and techniques of intrapersonal, interpersonal, and public communication, with opportunities for communication skills acquisition and practice.

2010 ✦ Interpersonal Communication Lec. 3 Lab. 0 Cr. 3

Theories and research in dyadic (one-to-one) communication, including the roles of self-concept and perception in communication; listening; verbal and nonverbal communication; and relationship development and maintenance. All concepts will be studied from various cultural and co-cultural perspectives.

2040 ✦ Oral Performance of Literature Lec. 3 Lab. 0 Cr. 3

Theory and practice of the oral communication of literature, including prose, poetry, and drama. Emphasis on conveying to an audience intellectual, emotional, and aesthetic content of literature through the voice and body.

2060 ✦ **Public Speaking** **Lec. 3 Lab. 0 Cr. 3**
(Not open to students who have credit for SPCH 1061.) Exploration of public communication concepts and techniques, including audience analysis, topic selection and research, organization of materials, and delivery skills. Creation and presentation of speeches and analysis of other speakers.

2061 **Speech Communication for Business and the Professions** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: SPCH 1061. Continued exploration of interpersonal and public communication concepts and techniques applicable to business and professional situations, including organizational communication theory, interviewing, proposal presentations, group decision making, parliamentary procedure, and intercultural communication.

2063 ✦ **Argumentation and Debate** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: SPCH 1061 or 2060. A study of the principles of argumentation and debate, including analysis, collection and use of evidence, reasoning, and refutation; class debating in vital questions.

2145 **Readers Theatre** **Lec. 3 Lab. 0 Cr. 3**
(Also offered as THTR 2145) Oral performance of literature by a group: adaptation of materials, presentation skills, and staging techniques. (Credit will not be given for both SPCH 2145 and THTR 2145)

2200 **Forensic Practicum** **Lec. 0 Lab. 1 Cr. 1**
Prerequisites: Consent of instructor and membership on the LSUA Speech Team. Preparation and presentation of speeches and/or interpretative materials for intercollegiate competition. May be taken for a maximum of 3 hours credit.

3040 **Performance Composition** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: SPCH 2040. Study of rhetorical and aesthetic elements of solo and group performance, including performances of literature, cultural performances, and experimental performance.

3060 **Advanced Public Speaking** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: SPCH 1061 or SPCH 2060. This course is designed to refine the student's public speaking skills. Advanced preparation in audience analysis, style, and vocal and physical delivery will be addressed.

3100 **Small Group Communication and Problem Solving** **Lec. 3 Lab. 0 Cr. 3**
Communication skills theory applied to small groups and teams. An emphasis on group dynamics, groups as systems, leadership, and individual roles in group interaction and problem solving.

3115 **Communication and Gender** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: SPCH 2010 or permission from instructor. An examination of biological and cultural perspectives on communication between the sexes.

3900 **Selected Topics in Speech** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: Consent of instructor. May be taken for a maximum of six (6) hours when topics vary.

4104 **Communication in Organizations** **Lec. 3 Lab. 0 Cr. 3**
Speech Communication theory and practice in organizations; research used to identify and solve communication problems; analyses of organizational communication.

4114 **Contemporary Theories of Communication** **Lec. 3 Lab. 0 Cr. 3**
Current methods and theories of human communication; research literature; behavioral antecedents and consequences of messages and their variations; how messages interact with communication to produce behavioral outcomes.

4119 **Nonverbal Communication** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: SPCH 2010. Nonverbal message systems such as kinesics and proxemics; relationship between verbal and nonverbal communication.

4120 **Implications of Computers and Technology on Human Communication** **Lec. 3 Lab. 0 Cr. 3**
A study of the dynamics of interpersonal, small group, and public forums when mediated through technology.

4150 **Communication Training and Development** **Lec. 3 Lab. 0 Cr. 3**
Focus on applied communication in organizations. Students will learn how to assess organizational issues and will create and practice adult learning activities on a wide range of communication topics.

4160 **Persuasive Communication** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: SPCH 1061, 2010, 2063, or

equivalent. Nature of persuasive speaking.

4900 Introduction to Communication

Research Methods Lec. 3 Lab. 0 Cr. 3
Prerequisites: SPCH 4114 and STAT 2011 (or equivalent). Capstone course for Speech Communication majors. Students will earn basic methods of data collection and the techniques available to interpret, report, and disseminate information in a variety of communication research projects.

4999 Communication

Seminar Lec. 3 Lab. 0 Cr. 3
The purpose of this course is to integrate knowledge from across the curriculum. Trends that connect the courses will be discussed. The student will gain insight into communication on every level of society

Statistics (STAT)

2011 ✦ General Statistics Lec. 3 Lab. 0 Cr. 3
(Also offered as MATH 2011 and PSYC 2011) Prerequisite: A grade of "C" or better in MATH 1021 or consent of the Department of Mathematics and Physical Sciences. Graphical display of data, measures of central tendency and variability, sampling theory, the normal curve, standard scores, Student's T, Chi Square, correlation techniques, inferences, and hypotheses testing.

Study Skills (STSK)

0006 College Study Skills Lec. 3 Lab. 0 Cr. 3
Provides students with information, methods and skills needed for satisfactory performance in college course work. Designed to include specific study techniques such as time management, concentration, note taking, comprehension and retention of learning, use of new technology and preparing for and taking examinations. Will also include career development activities. Credit for this course may not be used to fulfill degree requirements. PASS/NO CREDIT.

Theatre (THTR)

1020 ✦ Introduction to Theatre Lec. 3 Lab. 0 Cr. 3
A survey of the history and arts of the theatre; attendance of local theatrical productions usually required.

1025 Acting Lec. 3 Lab. 0 Cr. 3
Exploration through theatre exercises, movement training, monologues, and scene work of the actor's problems of intention, physical and vocal expression of emotion, and concentration.

1029 Movement for the Actor Lec. 2 Lab. 2 Cr. 3
Beginning stage movement for the actor, including flexibility, realignment, spatial awareness, gesture and body composition, and physical characterization.

1030T Theatre Study Tour (Travel Course) Cr. 1
Travel to selected sites of theatrical interest; pre-tour activities and post-tour essay. This course may be used as general elective credit only and may be repeated for up to two hours credit when sites and productions change. Students may not exceed two hours credit in any combination of 1030T travel courses. This course may not be taken concurrently with THTR 2030T.

2022 Introduction to Play

Production Lec. 3 Lab. 0 Cr. 3
Acting, directing, staging, lighting, costuming, and other aspects of producing a play. Concurrent registration in THTR 2026 is required.

2025 ✦ Acting II Lec. 3 Lab. 0 Cr. 3
Prerequisite: Grade of C or better in THTR 1025 or equivalent, permission of instructor. Advanced scene study from modern and contemporary theatrical works. Exploration of the principles involved in a workable theory of acting and their application through development of technical skill.

2026 Theatre Practicum Lec. 0 Lab. 1 Cr. 1
Prerequisite: Consent of instructor. Participation in play performance and/or production. May be taken three times, for a maximum of three semester hours credit.

2027 Stage Voice:

Basic Techniques Lec. 3 Lab. 0 Cr. 3
Prerequisite: SPCH 1050. Development of the actor's voice through physical awareness, breath release, phonation, resonance, and articulation to meet theatre performance standards.

2028 ✦ Introduction to

Dramatic Form Lec. 3 Lab. 0 Cr. 3

2030T Theatre Study Tour (Travel Course) Cr. 3
Travel to a major center(s) of professional theatre activity and attendance of selected productions. Course also includes pre- and post-tour lectures and discussions, assigned readings, and writing reviews and reports. This course may be used as an elective only and may be repeated for up to six hours credit when destinations and/or productions change.

2040 Summer Performance

Laboratory **Lec. 0 Lab. 3 Cr. 1**
Prerequisite: Consent of instructor. Participation as a performer in the LSUA Summer Theatre production(s). May be taken four times, for a maximum of four semester hours credit.

2041 **Summer Production**
Laboratory **Lec. 0 Lab. 3 Cr. 1**
Prerequisite: Consent of instructor. Participation in building/gathering assignments in advance of the LSUA Summer Theatre production(s) or as a member of a running crew. May be taken four times, for a maximum of four semester hours credit.

2145 **Readers Theatre** **Lec. 3 Lab. 0 Cr. 3**
(Also offered as SPCH 2145) Oral performance of literature by a group: adaptation of materials, presentation skills, and staging techniques. (Credit will not be given for both SPCH 2145 and THTR 2145)

3020 **American Musical**
Theatre **Lec. 3 Lab. 0 Cr. 3**
(Also offered as MUS 3020.) Development of the American Musical in its cultural, theatrical, and social contexts from its beginning to the present day; elements of musical theatre focusing on the works of composers, lyricists, designers, directors, choreographers, and performers.

3025 **Advanced Acting** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: THTR 2025. Advanced study of characterization and scene work.

3121 **Development of Theatre and**
Drama I **Lec. 3 Lab. 0 Cr. 3**
Historical survey of the development of theatre and drama from ancient Greece through the early Renaissance.

3122 **Development of Theatre and**
Drama II **Lec. 3 Lab. 0 Cr. 3**
Historical survey of the development of theatre and drama from the Renaissance through the late 19th Century.

3123 **Development of Theatre and**
Drama III **Lec. 3 Lab. 0 Cr. 3**
Historical survey of the development of theatre and drama from the late 19th Century to the present day.

4024 **Directing I** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: THTR 2022, 2025, and 2028; or equivalent. Director's problems of script analysis, characterization, and scene visualization.

4127 **Styles of Acting** **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: THTR 3025. Fundamental techniques of acting in period styles; acting styles required by plays for the Greek, Neoclassical, Elizabethan, 18th Century, 19th Century, and modern periods.

University Studies (USTY)

1001 **University Studies** **Lec. 1 Lab. 0 Cr. 1**
This course will focus on introducing the student to campus life and university culture, addressing study skills necessary for college success, and beginning the exploration of career development.

Zoo Biology (ZBIO)

1001 **History and Philosophy of Zoological**
Parks **Lec. 3 Lab. 0 Cr. 3**
This course will explore the historical development and philosophy of zoological and aquatic parks and aquaria. Modern zoo accreditation and related topics will be included. Field trips may be required.

1004 **Survey of Zoo Animal Biology I:**
Vertebrates **Lec. 3 Lab. 0 Cr. 3**
Prerequisite: general biology or zoology course and ZBIO 1001, or permission of instructor. This course will consider classification, structure, function, distribution, and ecological roles of vertebrates. Emphasis is placed on vertebrates commonly exhibited in zoological parks and aquaria. Species Survival Plans (SSPs) and other conservation-related topics concerning vertebrates in zoos will be included.

1008 **Introduction to Zoo**
Operations **Lec. 3 Lab. 0. Cr. 3**
This course covers the daily operation and maintenance of zoological parks. Topics may include animal keeping, animal health, animal nutrition, park maintenance and landscaping, reproductive management, concessions, visitor relations, education, and park management. Field trips may be required.