Courses are numbered as follows: freshmen, 100-level; sophomores, 200-level; juniors, 300-level; seniors, 400-level; graduate students, 500- & 600-level. Certain 400-level courses may be taken by graduate students for graduate credit; in such cases, graduate students complete additional research assignments to bring the courses up to graduate level rigor. The letter G in parentheses, (G), appears at the end of those 400-level undergraduate course descriptions which are approved for graduate level work. When taught for graduate credit, those courses are taught by Graduate Faculty. Only students admitted to the Graduate School may enroll in 500- & 600-level courses.

No credit is allowed in any curriculum for any course with a catalog number beginning with zero (0) (e.g. ENGL 099). These courses are open only to those students who place in them by examination.

The numerical listing after each course title gives the following information: the first number represents lab hours per week; the second digit represents the number of 75-minute lecture periods per week; the third digit represents the semester credit hours earned for successful completion of the course. A few courses will have a fourth digit in parentheses. This means the course may be repeated for credit and the fourth digit designates the total amount of semester hour credit that may be earned including repetition of the course. Typically, these courses are research-, performance-, or project-oriented and found in the 300-, 400-levels (undergraduate student) or 500-, 600-levels (graduate student).

Some courses require the student to complete a prerequisite course or to secure special permission from faculty prior to enrolling in the course. These prerequisites are listed immediately after the numerical semester credit hour designations. Each student is responsible for complying with prerequisite course work requirements and special instructions.

NOTES:
1. Courses with an asterisk (*) are accepted for General Education (GER) transfer credit according to the Board of Regents.
2. Courses with the designation (IER) meet the International Education Requirement.
3. Students with a Freshman or Sophomore classification are not eligible to register for 400-level (Senior) courses without the written approval of the Academic Dean (or the Dean’s designated representative) of the college responsible for that specific subject and course.
4. Course offerings for each term are listed in the Quarterly Schedule of Classes, published prior to Early Registration each quarter and on the BOSS website. Offerings by quarter are subject to change to accommodate needs of students.

ACCOUNTING (ACCT)


206: Financial Accounting for Entrepreneurs. 0-3-3. Not open to students enrolled in the CAB. This course is designed to provide basic understanding of financial accounting and reporting from an entrepreneurial perspective.


308: Managerial Cost Accounting. 0-3-3. Preq., ACCT 202 and QA 233. A study of cost systems; accounting peculiar to manufacturing enterprises; making cost statements; and solving cost problems.

401: Internship in Accounting I. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

402: Internship in Accounting II. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

404: Tax Factors in Entrepreneurial Decision Making. 0-3-3. Preq., ACCT 201 or 206. Not open to undergraduate accounting majors or MPA students. This course is designed to provide non-accounting majors with an understanding of major federal income tax, estate, and gift tax issues that confront entrepreneurs. (G)

406: Advanced Income Tax. 0-3-3. Preq., ACCT 307. A continuation of ACCT 307 with further study into tax problems of fiduciaries, partnerships, and multinationals. (G)

412: Municipal and Government Accounting. 0-3-3. Preq., ACCT 303. Accounting procedures of the Federal, municipal, and state governments. Attention is given to the preparation of budgets, financial statements, and to budgetary control. (G)

413: Auditing. 0-3-3. Preq., ACCT 304. The study of basic auditing concerns, objectives and methodology.

414: Advanced Auditing. 0-3-3. Preq., ACCT 305. Study of business combinations and consolidated financial statements; partnerships; international operations; fiduciary accounting; and governmental and not-for-profit entities. (G)


493: Advanced Auditing. 0-3-3. Preq., ACCT 413. Intensive study of professional conduct, auditing standards, auditor’s liability, reports, and internal auditing. (G)


507: Contemporary Accounting Theory. 0-3-3. Preq., ACCT 305. An intensive study of recent developments, research and literature in accounting theory promulgated by the various professional accounting associations and related financial organizations.


513: Advanced Auditing. 0-3-3. Preq., ACCT 413. Intensive study of professional conduct, auditing standards, auditor’s liability, reports, statistical sampling, and internal auditing.

517: EDP Accounting. 0-3-3. Preq., ACCT 413. A study of the accounting procedures and systems in a computer-intensive environment, including the proper utilization of computers in auditing the firm.


542: Seminar in Professional Development. 0-3-3. Preq., ACCT 413. Accounting and professional development requirements of knowledge from accounting and related courses; cases address multifaceted accounting issues including professional, ethical, cultural, and other contemporary concerns.

550: Directed Study in Accounting. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of accounting.

601: Seminar in Teaching Effectiveness and Academic Preparation. 0-3-3. Requires Doctoral standing. Course focuses on the primary concerns of accounting academics. The course provides training directed toward improving classroom teaching skills. Expectations for accounting faculty are examined in regard to teaching, research, and service. Discipline-based scholarship, contributions to practice, and pedagogical scholarship are introduced.


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into controversial and special areas of financial accounting. Credit will not be given for ACCT 606 if credit is given for ACCT 506.

607: Contemporary Accounting Theory. 0-3-3. Preq., ACCT 305. Requires Doctoral standing. May require additional class meetings. An intensive study of current developments, research and literature in accounting theory, promulgated by the various professional accounting associations and related financial organizations. Credit will not be given for ACCT 607 if credit is given for ACCT 507.

608: Advanced Managerial Accounting. 0-3-3. Preq., ACCT 308. Requires Doctoral standing. May require additional class meetings. A study of the role of accounting in supporting the management of organizations. Credit will not be given for ACCT 608 if credit is given for ACCT 508.

610: Theory of Accounting Research. 0-3-3 Preq., Doctoral Standing with MPA or equivalent. Accounting research design and methodology from a theoretical perspective and identification of potential behavioral and managerial accounting dissertation topics.

613: Advanced Auditing. 0-3-3. Preq., ACCT 413. Requires Doctoral standing. May require additional class meetings. Intensive study of professional conduct, auditing standards, auditor’s liability, reports, statistical sampling, and internal auditing. Credit will not be given for ACCT 613 if credit is given for ACCT 513.


617: EDP Accounting. 0-3-3. Preq., ACCT 413. Requires Doctoral standing. May require additional class meetings. A study of the accounting procedures and systems in a computer-intensive environment, including the proper utilization of computers in auditing the firm. Credit will not be given for ACCT 617 if credit is given for ACCT 517.

619: International Accounting. 0-3-3. Preq., ACCT 305. Requires Doctoral standing. May require additional class meetings. A study of the financial and managerial accounting issues and practices related to the globalization of business. Credit will not be given for ACCT 619 if credit is given for ACCT 519.

620: Accounting Research Applications. 0-3-3. Preq., Doctoral standing with MPA or equivalent. Consideration of basic and applied accounting research with an emphasis on research design and the further development of dissertation topics.

621: Cases and Problems in Income Taxes. 0-3-3. Preq., ACCT 307. Requires Doctoral standing. May require additional class meetings. Research cases covering various phases of income taxes; study of some source materials and research methods for ascertaining current rulings and trends in laws and regulations. Credit will not be given for ACCT 621 if credit is given for ACCT 521.

642: Seminar in Professional Development. 0-3-3. Preq., ACCT 413. Requires Doctoral standing. Accounting judgment and decision analysis requiring the integration of knowledge from accounting and accounting related courses; cases address multifaceted accounting issues including professional, ethical, cultural, and other contemporary concerns. Credit will not be given for ACCT 642 if credit is given for ACCT 542.

650: Directed Study in Accounting. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of accounting.

685: Comprehensive Exam in Accounting. No credit. (Pass/Fail). Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in accounting. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in accounting. Requires consent of graduate director.

289: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.

294: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.

300: Special Problems. 0-3-3. Preq., approval of instructor and department head. Selected contemporary business and economics topics. Topic will determine course admissions criteria.

301: Independent Study. 1-3 hours credit. Preq., approval of instructor and department head. Selected contemporary business and economics topics. May be repeated for credit.

389: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.

394: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.

400: Special Problems. 0-3-3. Preq., Approval of instructor, department head, and dean. Special contemporary business and economics topics. Topic will determine course admissions criteria.

401: Independent Study. 1-3 hours credit. Preq., Approval of instructor, department head, and dean. Selected contemporary business and economics topics in a student's curricular specialty.

410: Internship in Business Administration. 3 hours credit. (Pass/Fail). Preq., consent of instructor and senior standing. On-site, supervised, structured work experiences in the field of business.

489: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.

494: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.

495: Business Administration Capstone. 0-3-3. Preq., all core business courses and senior standing in the College of Administration & Business. Administrative policy determination through integration and application of knowledge gained in previous courses; emphasizes interrelationships of major functions of business under conditions of uncertainty; utilizes case study approach.

594: Special Topics. 1-4 hours credit. Preq.; graduate standing. Selected topics in an identified area of study in the College of Administration and Business.

610: Current Topics in Research. 0-3-3. May be repeated. Required of resident DBAs each quarter. Non-degree credit. Pass-Fail. Research methodology, current research of doctoral candidates, faculty, invited lecturers.

685: Oral Comprehensive Exam. No credit. (Pass/Fail). Doctoral standing required. Required for all business administration doctoral students. Successful completion of the oral comprehensive exam is a prerequisite to beginning the doctoral dissertation. Requires consent of graduate director and advisory committee chair.

690: Research and Dissertation. (Pass/Fail). Doctoral students only. Registration in any quarter is for 3 semester hours or multiples thereof, up to a maximum of 6 semester hours per quarter. Maximum credit applicable towards the degree is 72 semester hours.

AGRICULTURAL BUSINESS (AGBU)

220: Principles of Agricultural Economics. 0-3-3. Economic theory with application to production, marketing, and financing in agribusiness. Institutions such as cooperatives, farm credit systems, foreign agricultural trade, and government will be emphasized.

310: Agricultural Policy. 0-3-3. The impact of agricultural policy on the farm firm and agribusiness industry. Emphasis is placed on policy issues affecting producers and consumers of agricultural products.

402: Economics of Farm Management. 0-3-3. Economics principles applied to individual farm organization and management and study of farm accounting systems. (G)

430: Principles and Practices of Agricultural Marketing. 0-3-3. Methods and channels of agricultural marketing; marketing principles; governmental action concerned with the marketing process; analysis and evaluation of marketing problems. (G)

450: Natural Resource Economics. 0-3-3. Tools for economic decision-making applied to the use and allocation of natural resources associated
with agriculture. Costs and benefits of various approaches to natural resource management.

460: Agricultural Finance. 0-3-3. Analysis of financial investments in the agricultural firm, credit sources, debt repayment, capital allocation, and the use of short, intermediate, and long-term credit. (G)

AGRICULTURAL EDUCATION (AGED)

450: Advanced Agricultural Shop Methods and Safety. 3-2-3. Preq., AGSC 209 and 211. Methods and techniques for instruction in agricultural shop safety and power tool use in the high school agricultural shop laboratory.

460: Fundamentals of Agricultural Education. 0-3-3. History, traditions, and guidelines of agricultural education. Consideration of federal, state, and local laws and regulations concerning agricultural education and Louisiana’s public high schools.

AGRICULTURAL SCIENCE (AGSC)

201: Microcomputer Applications. 0-3-3. Introduction to microcomputers with specific applications in filing conventions, word processing, spreadsheets, electronic communications, and other topics.

209: Small Engines. 3-0-1. Principles of operation, construction, application, maintenance, and overhaul procedures of small internal combustion engines.

211: General Shop. 6-0-2. Care and use of tools, gas and electric welding, cold metal work, and woodworking.

320: Statistical Methods. 3-0-3. Preq., AGSC 209 and 211. Methods and techniques for instruction in agricultural shop safety and power tool use in the high school agricultural shop laboratory.

411: Seminar. 0-1-1. Reviews, reports, and discussion of current problems in agriculture and related fields.

477: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On-site supervised, structured work experiences located within a 100-mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for AGSC 478.

478: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On-site supervised, structured work experiences located within a 101-200-mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for AGSC 479.

479: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On-site supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for AGSC 479.

516: Contemporary Topics. 1-6 hours credit (6). Examination and discussion of a variety of timely topics pertaining to the agricultural sciences. May be repeated with a change in subject matter.

AIR FORCE AEROSPACE STUDIES (AFAS)

125: Introduction to the U. S. Air Force. (GMC). 0-1-0. Discussion of the Air Force today. Includes topics such as professionalism, communications, and the Air Force installation. Must be taken concurrently with AFAS 155.


155: AFROTC Leadership Laboratory. 1-0-0. Orientation and instruction in Air Force dress and grooming standards and application of Air Force discipline, customs and courtesies. Study of the Armed Forces and AFROTC grade structure, insignia, and chain of command. Introduction to military drill. (Pass/Fail)

156: AFROTC Leadership Laboratory. 1-0-0. Continuation in military customs and courtesies and military drill. Familiarization with Air Force services and activities. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

157: AFROTC Leadership Laboratory. 1-0-0. Structure and functions within the cadre corps, wing and base organizations. Additional instruction in military customs, courtesies and drill. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

225: The Development of Air Power I (GMC). 0-1-1. The beginnings of manned flight from balloons and dirigibles, to the Wright Brothers, World War I and the interwar years. Must be taken concurrently with AFAS 255.


255: AFROTC Leadership Laboratory. 1-0-0. Understanding the Air Force base environment. Application of Air Force standards, discipline, conduct, customs, and courtesies. Advanced drill positions and movements. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

256: AFROTC Leadership Laboratory. 1-0-0. Understanding selected career areas available based on individual qualifications. Advanced drill movements to include review and ceremony procedures. Discussion of privileges and responsibilities associated with an Air Force commission. Physical fitness training. (Pass/Fail)

257: AFROTC Leadership Laboratory. 1-0-0. Advanced drill movements to include orientation in commanding a flight, command voice, and use of guidon. Preparation for summer field training. Application of physical fitness regimen to meet weight and fitness standards and conditioning for field training environment. (Pass/Fail)

331: Communications for the Air Force (POC). 0-2-2. Functions and formats of Air Force communications. Emphasis on written and oral communications used by junior officers. Must be taken concurrently with AFAS 351.


351: AFROTC Leadership Laboratory. 1-0-0. Attain leadership and management competence through participation in advanced leadership experiences. General structure and progression patterns common to selected officer career fields. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

352: AFROTC Leadership Laboratory. 1-0-0. Continuation of advanced leadership experiences to attain leadership and management competence. Application of procedures for evaluating cadets. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

353: AFROTC Leadership Laboratory. 1-0-0. Continuation of advanced leadership experiences to attain leadership and management competence. Comprehension of special summer training programs available to cadets. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

431: National Security Policy and Professionalism. (POC). 0-2-2. Examination of the national security policy process and all of the key participants. Military professionalism and officer career will also be examined as to their impact on patterns of civil-military relations. Must be taken concurrently with AFAS 451.

432: Defense Strategy, Policy and Military Law (POC). 0-2-2. Examination of the methods of managing conflict to include arms control and the threat of war. The military justice system and professionalism will be covered as topics of special interest. Must be taken concurrently with AFAS 452.

433: Regional Studies and Preparation for Active Duty. (POC). 0-2-2. Examination of sensitive areas of the world and their impact on American National Security and what the new officer may expect on his/her initial assignment. Must be taken concurrently with AFAS 453.

451: AFROTC Leadership Laboratory. 1-0-0. Application of effective leadership and management techniques with individuals and groups. Comprehension of special education programs available to senior cadets. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

452: AFROTC Leadership Laboratory. 1-0-0. Continuation of the application of effective leadership and management techniques with

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individuals and groups. Comprehension of Communications and Operations Security programs. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

**453: AFROTC Leadership Laboratory.** 1-0-0. Continuation of effective leadership and management techniques with individuals and groups. Comprehension of active duty service commitments incurred throughout an officer's career. Understanding factors which facilitate a smooth transition from civilian to military life. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

**ANIMAL SCIENCE (ANS)**

111: Introduction to Animal Science. 0-3-3. Introduction to the field of Animal Science with emphasis on breeds, terminology and basic husbandry practices of dairy and beef cattle, horses, swine, sheep and poultry.

113: Introduction to Animal Science Laboratory. 3-0-1. Practical application and study of the different areas of animal science.

201: Introduction to Poultry Science. 3-2-3. The principles and practices of breeding, incubation, nutrition, disease control, management practices and marketing of poultry.


204: Meat Animal and Carcass Evaluation. 3-2-3. Selection of carcasses and wholesale cuts of beef, pork, and lamb; factors influencing grades, yields, and values in cattle, hogs, and sheep.

211: Introduction to Equine Science. 0-3-3. A general survey of principles of horse management and husbandry, to include anatomy, unsoundness, nutrition, health and reproduction.

220: Introduction to Horsemanship. 3-2-3. Introduction to methods and techniques for controlling and influencing the performance of horses.

221: Horsemanship/Equitation. 3-0-1 (3). Preq., ANSC 220. Experience based learning of horsemanship in either Western or English styles of riding. This class may be taken up to 3 times for credit.

222: Horse Behavior/Training I. 3-2-3. Horse behavior and psychology as it relates to breaking and handling horses. To include: fitness and conditioning, equipment, grooming, and show preparation.

223: Horse Behavior/Training II. 6-0-2 (6). Preq., ANSC 222. Experience based learning and application of horse behavior and psychology in training. This class may be taken up to 3 times for credit.

301: Principles of Animal Nutrition. 0-3-3. Preq., ANSC 111 and CHEM 100 or 130. The source, chemical composition, and nutritive value of farm animal feedstuffs.

305: Manufactured Dairy Products. 3-2-3. The manufacture of ice cream and frozen, cultured, and other dairy products.

315: Meat. 6-1-3. Methods and practices involved in the processing and preservation of meats.

318: Physiology of Reproduction. 0-2-2. Preq., ANSC 111. Physiology of reproduction of domestic farm animals. Embryology and anatomy of reproductive systems; gametogenesis, fertilization, gestation and parturition.

340: Horse Evaluation. 3-2-3. Detailed evaluation of the horse. To include: conformation, body condition, as well as breed and discipline characteristics.

401: Animal Breeding. 0-2-2. Principles and application of animal breeding, including gene frequencies, heritabilities, inbreeding coefficients, selection and mating systems. (G)


409: Animal Pathology. 3-2-3. Preq., BISC 214 or 260 and ANSC 307 or 309. The etiology, symptoms, prevention, control and eradication of the major diseases of farm animals. (G)

410: Beef Production. 3-2-3. Preq., ANSC 301 or 405. Principles and practices in breeding, feeding, marketing and management of beef cattle. (G)

411: Horse Production. 3-2-3. Preq., ANSC 111 or 211, and 318. Principle and practice in breeding, feeding, and management of horses.


425: Special Problems in Animal Science. 1-3 hours credit. May be repeated for credit. Preq., Written consent of instructor. Foul management and sale preparation; steer fitting and showing; or topic selected with consent of adviser.

440: Equine Farm Management. 3-2-3. Study of unique aspects of procuring and operating different categories of horse units. To include: facilities, management, insurance, and equine law.

442: Current Topics in Equine Science. 0-3-3. Preq., written consent of instructor required. Students will research topics and industry trends in the area of equine science. Topics in student interest areas will be assigned by the instructor.

470: Veterinary Techniques. 4-2-3. Preq., ANSC 309, 409, or special permission. Applications of veterinary diagnostic, therapeutic, and prophylactic techniques used in control of animal diseases. (G)

**APPLIED & NATURAL SCIENCES (ANS)**

189: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.

194: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.

289: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.

294: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.

389: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.

394: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.

489: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.

494: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.

589: Special Topics: 1-4 hours credit. Preq., Graduate standing. Selected topics in an identified area of study in the College of Applied & Natural Sciences.

594: Special Topics: 1-4 hours credit. Preq., Graduate standing. Selected topics in an identified area of study in the College of Applied and Natural Sciences.

**ARCHAEOLOGY (ARCE)**

401: Introduction to Archaeology. 4-2-3. An introduction to the techniques of research and field work in Archaeology. (G)

410: Selected Topics in Archaeology. 0-3-3 (6). Seminar in archaeology with topic designated by instructor. May be repeated for credit as topic changes. (G)

420: Indians of the Southwest. 4-2-3. A survey of Indian Archaeology in the southwestern United States. (G)

462: Christian Archaeology. 3-2-3. Preq., HIST 101 or consent of instructor or junior standing. A study of the archaeology, architecture, and inscription in early Christian sites in and nearby Rome. (G)

463: Etruscan Archaeology. 3-2-3. Preq., HIST 101 or consent of instructor or junior standing. A study of the art, architecture, archaeology, history and inscriptions of the Etruscans. (G)

464: Roman Archaeology. 3-2-3. Preq., HIST 101 (or equivalent). A study of the monuments and antiquities of Classical Rome. (G)

466: Egyptian Archaeology. 3-2-3. Preq., HIST 101. The study of the archaeology, art, architecture, history, and inscriptions of the ancient Egyptians. (G)

**ARCHITECTURE (ARCH)**

110: Foundation Design I. 6-0-2. Empirical studies of the principles and processes related to the poetic and tectonic aspects of making architectural form. (G)


130: Foundation Design III. 6-0-2. Preq., ARCH 120. Culmination of a three-course sequence studying the principles and processes related to the poetic and tectonic aspects of making architectural form.

131: Architectural Theory. 0-2-2. An examination of architecture as a language system, involving the investigation of its basic vocabulary and grammar and their development and refinement in the history of architecture.


200: Issue Investigation. 0-1-1. A synaptic examination of the principles of site analysis and planning as related to building.


211: Architectural History. 0-2-2. An examination of the classical language of architecture with specific reference to the contributions of the social, cultural, intellectual, technological contexts to its development.


221: Building Systems I. 0-3-3. Introduction to the concepts, principles, and conventions associated with a building’s structural and envelope systems.

222: Architectural History. 0-2-2. Preq., ARCH 211. An examination of the modern language of architecture with specific reference to the social, cultural, intellectual, technological contexts to its development.


231: Contemporary Architectural History. 0-2-2. Preq., ARCH 222. An examination of the various movements that have emerged since 1960 with reference to the social, cultural, intellectual, and technological contexts that fostered their developments.

232: Building Systems II. 0-3-3. Study of environmental and physical systems’ impact on building envelope and interior space design emphasizing passive energy techniques, daylight, electrical lighting and acoustics.


301: Computer Applications Colloquium. 0-2-2. Introduction to software applications that facilitate communications, design, drafting, modeling and research in the discipline of architecture.


311: Built Form and Behavior. 0-2-2. A critical analysis of the psychological, social and cultural factors that are manifest in and influenced by architectural form.

320: Architectural Design II. 9-0-3. Preq., ARCH 310 and 474. Examination of the relationship between architecture and its physical context with emphasis on site analysis, design methodology, light frame construction, and passive/sustainable systems.


332: Building Systems III. 0-3-3. A study of service systems’ impact on building envelope and interior spaces emphasizing plumbing, mechanical, electrical, and vertical transportation systems.

350: Visual Studies. 9-0-3 (6). Studies of the art and craft of building through the design and fabrication of architectonic objects.


400: Studio Problems. 6-0-2 (4). Specialized studio problems in aqueous media on paper.

402: Field Travel. 0-1-1 (3). The examination and analysis of contemporary architectural works and urban environments through participation in supervised travel (G).

403: Project Documentation. 9-0-3 (6). Preq., ARCH 474. The full documentation of a project of historic or architectural significance in Historic American Buildings Survey format. (G)

410: Architectural Design III. 9-0-3. Preq., ARCH 320. Examination of site selection and program definition within varying contexts through schematic design studies emphasizing steel or concrete structural systems and active mechanical/electrical systems.

411: Planning and Urban Design Theory. 0-2-2. An examination of the processes of design and change in urban environments, with discussion of strategies and processes for intervening in the development of these environments.


421: Building Systems IV. 0-3-3. Study of the principles of structural behavior and varied building material assemblies through technical documentation.

431: Architectural Seminar I. 0-2-2 (6). Examination and investigation of selected topics associated with the internal logic of buildings: codes, building systems, construction materials, and assemblies. (G)

441: Architecture of Louisiana. 6-0-2. A survey of the architecture of Louisiana and its South from the colonial era to the present. (G)

445: Professional Problems. A(1/2-0-1); B/9 1/2-0-2); C(13 3/4-0-3). Individual study with variable credit of selected professional problems having educational significance. Topic and credit by agreement with the Department Head.

450: Related Readings. A(4 1/2-0-1); B/9 1/2-0-2); C(13 3/4-0-3). Guided readings in a specific aspect of architectural theory or practice under the supervision of a faculty member. Credit and topic by agreement with the Department Head.

471: Professional Practice I. 0-2-2. Architect's role and responsibility in the project process of predesign, design, construction documents, and the administration of the construction contract.

472: Architectural Seminar II. 0-2-2 (6). Examination and investigation of selected topics associated with the practice of architecture: ethics, management, marketing, services, and finances. (G)

473: Design Research. 0-2-2. A study of research method for the architect including the execution of scholarly research and programming as related to the degree design project.

474: Computers for Designers. 0-2-2. Development of fundamental skills in software applications associated with architectural production and project delivery.

480: Degree Design Project I. 12-0-4. Preq., ARCH 473. Initiation of the degree design project through multiple schematic design iterations that reconcile and resolve contextual, formal, functional, and ideological issues.

481: Professional Practice II. 0-2-2. Preq., ARCH 471. The business of architecture with emphasis on practice trends of the future in respect to project and design management.

490: Degree Design Project II. 12-0-4. Preq., ARCH 480. A continuation of ARCH 480 emphasizing the detailed design development of the previously resolved schematic design.

491: Professional Practice III. 0-2-2. Preq., ARCH 481. The legal, ethical and moral issues of architectural practice as related to the changing professional context.

501: Selected Topics Seminar. 0-2-2 (4). Preq., graduate standing. Selected topics in an identified area of study in the School of Architecture.

510: Comprehensive Design I. 15-0-5. Preq., graduate standing. Initiation of a comprehensive project through the study and implementation of architectural research methods with emphasis on programming, analytical building precedent research, issue research and scholarship.

520: Comprehensive Design II. 15-0-5. Preq., ARCH 510. Continuation of a comprehensive project through schematic design with emphasis on the relationship between design and building systems.

530: Comprehensive Design III. 15-0-5. Preq., ARCH 520. Conclusion of a comprehensive project through design development with emphasis on operational refinement, material assemblies and building systems as realized through a comprehensive set of scaled drawings and models.

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115: Design. 6-1-3. Formal problems of the theory and practice in the elements and principles of design.

116: Color Design. 6-1-3. Preq., ART 115 or ARCH 110. The study of color and the interaction of color in design.

117: Conceptual Design. 6-1-3. Preq., ART 116 and 126. A materials and techniques course with an emphasis on experimental investigations which combines both traditional and contemporary approaches.

118: 3-D Design. 6-1-3. Preq., ART 115. Problems in three-dimensional design and increased emphasis on the development of individual ideas through various materials such as clay, plaster, fiberglass, wood, and plastics.

119. Introduction to Graphic Design Software. 6-1-3. Preq., ART 115 and 116. Survey of the fundamentals of using graphics-creating software. Students will gain a working knowledge of the applications of specific software programs through design assignments.

125: Drawing. 6-1-3. A study of the principles underlying all creative and representation drawing.


160: Introduction to Communication Design. 6-1-3. Preq., ART 116 and 126. An Introduction to the methods, processes, and principles of graphic design.

170: Introduction to Photography. 6-1-3. An introduction to the photographic medium through an exploration of basic tools, techniques, and aesthetics of 35mm black and white photography.

173: Intermediate Photographic Practices. 6-1-3. Preq., ART 170. Advanced black and white techniques covering exposure, development, and printing of small format negatives, with special emphasis on the use of the Zone System.


202: Woodshop Orientation. 3-0-1. A familiarization course for students, preparatory to their use of the woodshop. The course will be a hands-on introduction to all the equipment available for student use.

205: Introduction to Digital Photography. 6-1-3. Preq., ART 116, 173. Introduction to the basic functions of digital cameras and software for image manipulation. For Photography majors only.


221: Painting. 6-1-3. Preq., ART 220 and 225 or Art 228 or 229. Creative approach to the problems in painting with emphasis on the human figure.

222-229: Figure Drawing. 6-1-3 each. Preq., ART 125 and 126. Drawing in media from models.

240: Ceramics. 6-1-3. Introductory course on methods of ceramic construction with emphasis on the creative aspects of pottery.

241: Ceramics. 6-1-3. Emphasis on the use of the potter's wheel.


261: Production. 6-1-3. Preq., ART 160. Introduction to the techniques and technology involved in preparing communication design projects for printing.

262: Layout. 6-1-3. Preq., ART 260. Studio projects exploring contemporary graphic design formats and techniques. Utilization of the creative process in problem solving is emphasized.


266: History of Art I. 0-3-3. A survey of the painting, sculpture, architecture, and minor arts of ancient and medieval societies. Statewide Transfer Agreement Course.

267: History of Art II. 0-3-3. Preq., ART 266. A survey of the painting, sculpture, architecture, and minor arts from the Renaissance to the present. Statewide Transfer Agreement Course*.


290: Art Appreciation. 0-3-3. Study and enjoyment of art in its various expressions. Principles for critical judgment. Art in dress, the home, furniture, textiles, pottery, painting, graphic arts, and civic art. (non-art majors only). Statewide Transfer Agreement Course*.

320: Painting. 6-1-3. Preq., ART 220. Creative approach to the problems in painting with emphasis on experimentation in various media, subjects, and techniques.

321: Painting. 6-1-3. Continuation of ART 320.

331: Introduction to Intaglio. 6-1-3. Preq., ART 116 and 126. A basic survey of intaglio techniques in etching, drypoint, aquatint, lift ground, and soft ground.

346: Ceramics. 6-1-3. Preq., ART 240 or 241. An Advanced course in ceramic design and construction with the introduction to the construction and use of ceramic kilns.


361: Art Direction. 6-1-3. Preq., ART 261, 262, and 263. Advanced studio projects emphasizing problem-solving within a creative team and utilizing multiple design and imaging media and techniques.

362: Computer Graphics. 6-1-3 (9). Preq., ART 260. Exploration of the uses of contemporary computer software and hardware for the creation of graphic design projects.


373: Commercial Photography. 6-1-3. Preq., ART 372. An introduction to commercial applications of photography. Large format camera operation is studied with assignments covering a wide range of topics from Architecture to Fashion.

374: Commercial Portfolio. 6-1-3. Preq., ART 373. A concentrated study in one area of interest and production of a portfolio suitable for presentation. Large format color will be used extensively.

378: History and Aesthetics of Photography. 0-3-3. A survey of the photographic image from 1839 to the present with special emphasis on the development of photographic seeing.


390: Sculpture. 6-1-3(9). Preq., ART 118. Investigations in sculptural processes, materials, and techniques.

391: Sculpture. 6-1-3(9). Preq., ART 118. Creative approach to problems in metal casting, fabrication, welding, mold technology, and foundry procedures.

415: Studio Problems. 6-1-3 (9). Preq., Permission of instructor. Advanced problems in design. (G)

420: Studio Problems. 6-1-3(9). Preq., ART 320. Advanced problems in painting. (G)

427: Advanced Drawing. 6-1-3(9). Preq., ART 225 or 228 or 229. Interpretive approach to drawing. (G)

430: Studio Problems. 6-1-3(9). Preq., ART 331. Advanced problems in printmaking. (G)

440: Studio Problems. 6-1-3 (9). Preq., ART 346 or 347. An elective course in advanced crafts. (G)

459: Women and the Arts. 0-3-3. Preq., ART 267. Survey of women's involvement with the visual arts. Major emphasis upon anonymous "female" crafts and leading women artists, 1600 to present. (G)

460: Monuments of Non-Western Art. 0-3-3. Survey of monuments of architecture, sculpture, and painting, etc., from the most glorious epochs of selected Asian, African, Pre-Columbian, and Oceanic cultures. (G)


*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.
463: Portfolio I. 6-1-3. Preq., ART 260. Advanced projects for the professional graphic design portfolio. (G)

464: Computer Graphics for Portfolio. 6-1-3 (6). Preq., ART 362. Advanced uses of contemporary computer hardware and software for the creation of the graphic design portfolio. (G)

465: American Art in the Age of Expansion, 1865-1893. 0-3-3. Preq., ART 267. A survey of leading artists, styles, movements and changing attitudes about art. It stresses socioeconomic aspects of art making and patronage. (G)

466: History of Modern Art. 0-3-3. Preq., ART 267. Historical and critical appraisal of art in the 19th and 20th centuries. (G)

468: History of American Art. 0-3-3. Preq., ART 267. Historical and critical appraisal of art in America from the colonial era to the present. (G)

469: History of Italian Art. 0-3-3. Preq., ART 266. A survey and analysis of the painting, sculpture, and architecture produced in Italy between 1260 and 1600. (G)

471: Studio Problems in Communication Design. 6-1-3 (9). Preq., ART 260. Advanced projects in communication design for the professional portfolio, emphasizing concentration in techniques and problem-solving projects. (G)

473: Image Manipulation with Computers for Artists. 6-1-3-(9). Preq., ART 174 and 205. Advanced use of Photoshop software, computers, and peripheral devices (cameras, scanners) in digital imaging. Criticism of individual projects and group discussion. (G)

474: Senior Exhibition. 6-1-3 (9). Senior Standing. One quarter prior to graduation the student must present an exhibition of sufficient quality to warrant exiting the program and completing the professional communication design portfolio and resume. Course culminates in graded exhibition. Samples of portfolio work for departmental archives are required.

490: Sculpture. 6-1-3-(9). Preq., ART 390 or 391. Creative approach to the problems in sculpture with individually directed experiments in the various sculptural processes. (G)

499: Issues in the Arts. 0-3-3. A seminar for undergraduate senior and graduate students in the arts. This course will cover verbal and written interchange of ideas and issues in the arts. Seniors and graduate students only. (G)

510: Graduate Design. 6-1-3-(6). Studio work varying with the student's project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

511: Graduate Design. 6-1-3-(6). Studio work varying with the student's project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

512: Graduate Design. 6-1-3-(6). Studio work varying with the student's project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

513: Master's Project. 6-1-3-(6). Original, independent studio work approved by the Art Graduate Committee as appropriate for presentation as a one-man exhibition of final project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

514: Master's Project. 6-1-3-(6). Original, independent studio work approved by the Art Graduate Committee as appropriate for presentation as a one-man exhibition of final project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

515: Master's Project. 6-1-3-(6). Original, independent studio work approved by the Art Graduate Committee as appropriate for presentation as a one-man exhibition of final project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

520: Advanced Studio Problems. 6-1-3-(6). Projects, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

521: Advanced Studio Problems. 6-1-3-(6). Projects, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

522: Advanced Studio Problems. 6-1-3-(6). Projects, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

540: Advanced Crafts. 6-1-3-(6). Studio work involving the design and construction of two-dimensional and three-dimensional problems. Choice of media with consent of Art Graduate Committee, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

541: Advanced Crafts. 6-1-3-(6). Studio work involving the design and construction of two-dimensional and three-dimensional problems. Choice of media with consent of Art Graduate Committee, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

542: Advanced Crafts. 6-1-3-(6). Studio work involving the design and construction of two-dimensional and three-dimensional problems. Choice of media with consent of Art Graduate Committee, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

550: Photographic Projects. 6-1-3-(9). Advanced photographic project in field of special interest, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

564: Graduate Seminar. 6-1-3-(9). Guided study, discussion, and reading in art related to college level teaching.

566: Art History. 6-1-3-(6). Guided and/or independent research related to contemporary developments in art.

567: Graduate Exhibition. 6-1-3-(6). Preparation for and installation of graduate exhibition, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

570: Photographic Projects. 6-1-3-(9). Advanced photographic concepts and techniques. Practical and expressive application of photographic processes to the applied and fine arts, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

571: Photographic Seminar. 6-1-3. Research paper with supportive audio slide presentation.

572: Portfolio. 6-1-3-(9). Preparation of a portfolio, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

573: Photographic Exhibition. 6-1-3. Preparation of an exhibit, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

574: Directed Projects in Communication Design & Digital Imaging. 6-1-3 (9). Design project assigned by the Art Graduate Committee. Emphasis on development of practical experience in designer-client relationships and the use of advanced digital design technology to create and disseminate project work, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

575: Directed Projects in Communication Design & Digital Imaging. 6-1-3 (9). Design project assigned by the Art Graduate Committee. Emphasis on development of practical experience in designer-client relationships and the use of advanced digital design technology to create and disseminate project work, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

576: Directed Projects in Communication Design & Digital Imaging. 6-1-3 (9). Design project assigned by the Art Graduate Committee. Emphasis on development of practical experience in designer-client relationships and the use of advanced digital design technology to create and disseminate project work, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

577: Directed Research in Communication Design & Digital Imaging. 6-1-3 (9). Research project developed by student with the Art Graduate Committee. Emphasis on advanced application of abilities pertinent to contemporary graphic design such as use of digital design technology, expertise in traditional media imaging, and the creation of visual communications for corporations, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

578: Directed Research in Communication Design & Digital Imaging. 6-1-3 (9). Research project developed by student with the Art Graduate Committee. Emphasis on advanced application of abilities pertinent to contemporary graphic design such as use of digital design technology, expertise in traditional media imaging, and the creation of visual communications for corporations, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

579: Graduate Seminar in Graphic Design Education. 0-3-3 (6). Discussion and guided research concerning college classroom and computer laboratory instruction in graphic design education.

580: Master's Thesis & Exhibition in Graphic Design. 0-3-3. Preq., ART 390 or 391. Research project developed by student with the Art Graduate Committee. Emphasis on advanced application of abilities pertinent to contemporary graphic design such as use of digital design technology, expertise in traditional media imaging, and the creation of visual communications for corporations, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

581: Master's Thesis & Exhibition in Graphic Design. 0-3-3 (6). Discussion and guided research concerning college classroom and computer laboratory instruction in graphic design education.

BIOLOGICAL SCIENCES (BISC)


131: Biological Principles Laboratory. 3-0-1. Coreq., BISC 130. Student-oriented experiments and demonstrations emphasizing biomolecules, cells, metabolism, genetics, evolution, and ecology.

132: Biological Diversity. 0-3-3. Preq., BISC 130; Coreq., BISC 133. An introduction to the classification, anatomy, and physiology of prokaryotes and eukaryotes.

133: Biological Diversity Laboratory. 3-0-1. Coreq., BISC 132. Investigations of the classification, anatomy, and physiology of prokaryotes and eukaryotes.

134: Botany. 0-3-3. Introduction to botany, including the biology of plants, fungi, bacteria, and viruses.

150: Phlebotomy. 0-2-2. Principles of specimen collection, techniques, and processing with emphasis on related issues of patient relations, medical terminology, anatomy and physiology, quality assurance, safety and compliance.

151. Phlebotomy Laboratory. 10-0-2. Preq. or Coreq., BISC 150. A laboratory to accompany BISC 150. Instruction and practicum concerning specimen collection techniques of both routine and special considerations.

197. The Biology Connection. 0-1-1. (Pass/Fail). Designed to inform sophomore biology majors about advanced study techniques, resume and portfolio construction, research opportunities, standardized test taking, application procedures, and post-graduate studies.

200: Principles of Genetics. 0-3-3. Fundamental laws of heredity as applied to plants, animals, and humans.

201: Scientific Principles. 0-3-3. A general course embracing the principles of the biological and physical sciences, incorporating teacher participation and laboratory activities.

211: Introduction to Environmental Sciences. 0-3-3. Basic laws, principles, and issues related to causes, effects, and controls of environmental problems including human-environment interactions. Credit will not be given for BISC 211 if credit is given for ENSC 211.

212: Conservation and Management of Natural Resources. 0-3-3. An introduction to the management of renewable resources including the use, conservation, and sustainability of these resources. Credit will not be given for BISC 212 if credit is given for ENSC 212.

214: Survey of Microbiology. 4-3-4. Fundamental concepts of microbiology, emphasizing techniques and laboratory procedures used in medically related studies.

216: Plant Biology. 0-3-3. Preq., BISC 130, 131. Introduction to the biology of plants including growth, morphology, physiology, genetics, diversity, and propagation.

217: Plant Biology Laboratory. 3-0-1. Preq. or Coreq., BISC 216. Exploration and application of plant biology concepts and processes.


224: Human Anatomy and Physiology. 0-3-3. Preq., Consult with your advisor. Introduction to human anatomy and physiology including structure and function of cells, tissues, organs and the integumentary, skeletal, muscular, and nervous systems.

225: Human Anatomy and Physiology. 0-3-3. Preq., Consult with your advisor. Introduction to human anatomy and physiology including structure and function of cells, tissues, organs and the integumentary, skeletal, muscular, and nervous systems.

226: Anatomy and Physiology Laboratory. 3-0-1. Preq., BISC 225, or concurrent enrollment. Specially designed exercises permitting students to observe the physiology and anatomy of mammals.

227: Human Anatomy and Physiology. 0-3-3. Preq., BISC 225 or equivalent. A continuation of 225. Including structure and function of circulatory, respiratory, digestive, excretory, endocrine and reproductive systems.

228: Anatomy and Physiology Laboratory. 3-0-1. Preq., BISC 227, or concurrent enrollment. Additional laboratory exercises to illustrate the anatomy and physiology of animals.

246: Instrumentation. 4-2-3. Preq., 8 semester hours of biological or chemical sciences. Emphasizes laboratory safety and the operational theory, use, and maintenance of instruments appropriate to biological, environmental, and medical investigations. Credit will not be given for BISC 246 if credit is given for ENSC 246.

250: Introduction to Clinical Laboratory Sciences. 4-1-2. Introduction to the curriculum and profession including computer utilization in problem solving, professional awareness, pre-clinical/clinical articulations, and information sources in medical technologies.

260: Microbiology. 4-3-4. Preq., CHEM 100, 101; BISC 130, 131. Designed for students majoring in science. Course will cover topics in clinical, applied, environmental, and eukaryotic microbiology. Statewide Transfer Agreement Course*.

275: Aquatic Bioassays. 0-1-1. Internet-based course centering on governmental regulations concerning bioassays to test for toxicity in waste effluents released into the United States. Credit will not be given for BISC 275 if credit is given for ENSC 275.

284: Introduction to Marine Science. 8-3-4. Preq., BISC 132, 133. Introduction to chemical, geological, and biological processes in the oceans and coastal environments; interrelationships of humans and the marine environment. Five weeks spent at the Louisiana Universities Marine Consortium Coastal Laboratory.

285: Introduction to Marine Zoology. 8-3-4. Preq., BISC 132, 133. Survey of marine animals particularly those of the Louisiana Gulf Coast, including classification, morphology, physiology, and ecology. Five weeks at the Louisiana Marine Consortium Coastal Laboratory.


301: Essentials of Exercise Physiology. 0-1-1. This on-line course will survey the central concepts of human exercise with regard to both theory and applications of fitness and performance.

310: Genetics. 4 1/4-2-3. Preq., BISC 132, 133. Principles of inheritance in plants and animals at the biochemical, cellular, organismal, and population levels.

313: Ecology. 4 1/4-2-3. Preq., BISC 132, 133. An overview of the interactions of plants, animals, and non-living factors as they influence individuals, populations, communities, and ecosystems. Credit will not be given for BISC 313 if credit is given for ENSC 313.

315: Cell Biology. 0-3-3. Preq., BISC 132, 133. Detailed study of the structural and functional organization of the cell and the interactions of the organelles with respect to metabolism and heredity.


320: Animal Physiology. 0-3-3. Preq., BISC 132, 133. (BISC 290 strongly recommended). A general and comparative approach to the principles and concepts of physiology which apply to animal systems.

321: Animal Physiology Laboratory. 4-0-1. Laboratory studies in animal physiology.


341: Hematology. 4 1/2-2-3. 8 semester credits of BISC. Quantitative and qualitative methods for determining the condition of cellular blood and a study of its histology, morphology and physiology.

343: Medical Microbiology and Immunology. 4-3-4. Lecture and laboratory exposure to principles of pathogenic bacteriology, immunology, virology, mycology, and parasitology with a diagnostic emphasis.

344: Clinical Chemistry and Toxicology. 4-3-4. Preq., CHEM 104. Study of the pathological and toxic significance of analytes and toxic substances found in human body fluids, including methods of analysis and quality assurance.

360: Biological Problems. 1 - 3 hour(s) credit (6). Preq., Junior standing and written permission of instructor. An introduction to the principles of research.

361: Laboratory Assisting. 1-3 hour(s) credit (3). Preq., Junior standing and written permission of instructor. Experience in biological science laboratory assisting in student instruction and practice.

401: Parasitology. 3-2-3. Preq., BISC 132, 133. Protozoan and helminthic parasites of medical and veterinary importance to humans with emphasis on morphology, life cycles, pathogenesis, diagnosis, and control.


404: Immunology Laboratory. 3-0-1. Preq. or Coreq., BISC 402. Laboratory exercises in immunology to include precipitation, agglutination procedures, isotopic and nonisotopic immunoassays, reagent preparation and validation.


407: Histology. 8 1/2-1-3. Preq., BISC 320, 321, or equivalent. Microscopic study of animal tissues with emphasis on functional and structural interrelationships.
408: Bacterial Genetics. 3-2-3. Preq., BISC 260, 310. Topics include nucleic acid effectors in prokaryotes, mutations, phage genetics, and molecular methods of studying gene structure/function.


410: Advanced Genetics. 4 1/4-2-3. Preq., BISC 310 or consent of the instructor. Principles and methods for analyzing biochemical and chromosomal polymorphisms, metabolic pathways, pedigrees, and population differentiation with emphasis on humans.


412: Environmental Plant Physiology. 0-3-3. Preq., BISC 132 or equivalent. Study of the plant's response to the biotic and abiotic environment. Topics include the plant environment, phytoremediation, and the physiology of plant stress.

413: Advanced Ecology. 0-3-3. Preq., BISC 313 or FOR 301. An in-depth study of the interactions of the plant and animal communities with their environments.


420: Environmental Animal Physiology. 0-3-3. Preq., BISC 320. Functional adaptations of animals to their environments, with emphasis on vertebrates.

421: Mycology. 4 1/4-2-3. Preq., BISC 132, 133. A survey of the Kingdom Fungi with emphasis on Ascomycete and Basidiomycete anatomy, morphology, and field identification.


426: Evolution. 0-3-3. Preq., BISC 130, 131, or 101, 102, or equivalent. A study of the concepts, problems, and methods involved in the formulation of modern evolutionary theory.

428: Wetland Ecology. 0-3-3. Study of wetland characteristics and the ecological processes occurring within wetlands. Wetland delineation, restoration, construction and regulation will also be covered. Cannot be taken for credit if student has credit for FOR 428.

432: Mammalogy. 4 1/4-2-3. Preq., BISC 132, 133. The identification, taxonomy, characteristics, and general biology of mammals with emphasis upon those of North America.

433: Ornithology. 4 1/4-2-3. Preq., BISC 132, 133. Identification, taxonomy, characteristics, and general biology of birds, with emphasis upon those of North America.


438: Marine Microbiology. 8-3-4. Preq., BISC 130, 131, 132, 133. Introduction to the marine and estuarine microbiota, especially bacteria and fungi; covers classification, methodology, role in marine ecosystems, biogeochemical cycles and diseases of marine animals. Five weeks at a Louisiana Universities Marine Consortium Coastal Laboratory.

439: Marine Science for Teachers. 2-8-3. Survey of the marine sciences, techniques for teaching marine science at secondary and elementary school levels. Five weeks at the Louisiana Universities Marine Consortium Coastal Laboratory.

444: Environmental Microbiology. 4-2-3. Preq., BISC 260. Basic and contemporary aspects of soil, water, and industrial microbiology. Credit will not be given for BISC 444 if credit is given for ENSC 444.

445: Immunohematology. 3-1-2. Preq. BISC 341 or consent of instructor. Principles of donor screening, immunological testing for compatibility, tests for infectious agents and record keeping associated with transfusion medicine.

447: Principles of Pharmacology. 0-3-3. Preq. 8 credit hours of biological and/or chemical sciences. The classification, modes of action, and therapeutic utility of common pharmacological agents are described.

450: Biological Topics. 1-4 hour(s) credit (8). An opportunity to observe and discuss topics of current interest in the biological and/or medical sciences. Offered on demand.

454: Microbial Ecology and Diversity. 4-2-3. Preq., BISC 260. A contemporary approach to examining the evolution and interactions of prokaryotic and eukaryotic microbes in their natural environments.


466: Medical Anthropology. 0-3-3. Introduction to medical anthropology, including non-western perspectives on disease causation and curing, paleopathology, ethnomedicine, ethnopsychiatry, shamanism, alternative medicine and biocultural approaches to health problems.

467: Biological Anthropology. 0-3-3. Introduction to physical anthropology, including primate anatomy and behavior, human origins and evolution, human adaptation and variation, applied anthropology, and the interrelationship between biology and culture.

470: Medical Ethics. 0-3-3. Reading and discussions of the application of various principles of ethics to questions of medical practice.

471: Neuroscience and Neural Engineering. 0-3-3. Principles of neuroscience encompassing structure and function of the nervous system at the molecular, cellular, and system levels, including the visual, auditory, and motor systems.

472: Neuroscience Laboratory. 4-0-1. Laboratory studies in neuroscience with a concentration on standard histological, anatomical, and physiological techniques.

477: Practica/Internship/Cooperative Education in Biological Sciences. 1-3 hours credit. May be repeated once. (Pass/Fail). On site, supervised, structured work experiences located within a 100 mile radius of Ruston. Application and supervision fee required.

478: Practica/Internship/Cooperative Education in Biological Sciences. 1-3 hours credit. May be repeated once. (Pass/Fail). On site, supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and supervision fee required.

480: Undergraduate Seminar. 0-1-1. Preq., Senior standing. Required of all senior BISC majors. Supervised study, reports, and discussion of current biological literature. Credit will not be given for BISC 480 if credit is given for ENSC 400.

482: Introduction to the Human Brain. 0-2-2. This on-line course will provide an overview of the major structural and functional features of the human brain.


485: Marine Ecology. 8-3-4. Preq., BISC 132, 133; CHEM 102, 104. Relationships of marine estuarine organisms to environmental factors; interactions among organisms, communities and ecosystems of the Louisiana coastal zone. Five weeks at the Louisiana Universities Marine Consortium Coastal Laboratory.

486: Marine Invertebrate Zoology. 8-3-4. Preq., BISC 132, 133. General study of the classification, structures, function, and ecology of marine and estuarine invertebrates, emphasizing those of the Louisiana Gulf Coast. Five weeks at the Louisiana Universities Marine Consortium Coastal Laboratory.

490: Microscopy Techniques. 0-3-3. An introduction to the theory and practice of microscopy and histological techniques.


492: Protein Analysis. 3-2-3. An introduction to laboratory methods used in the analysis of proteins, including extraction, determination of concentration, purification, characterization, and sequencing.


502: Research Methods in Biological Sciences. 0-3-3. Preq., Bisc 290, 310. An opportunity to design, implement, and analyze research projects in the biological sciences.
503: Graduate Immunology Laboratory. 3-0-1. Laboratory training in the preparation, titration, purification, and detection of antigens and antibodies.

504: Advanced Microbial Physiology. 3-3-4. Preq., BISC 335. An advanced course on the physiology of bacteria, including bacterial growth and variation, cytology, nutrition, respiration, and temperature effects.


508: Graduate Bacterial Genetics. 3-2-3. Regulation of gene expression, DNA transfer, mutations, and molecular tools in genome analysis.

509: Biological Sciences Seminar. 0-1-1 (2). Survey of literature on current topics in either Bacteriology, Botany, Microbiology, or Zoology, where appropriate.

511: Graduate Developmental Biology. 6-2-3. Study of the reproductive and developmental events in organisms emphasizing both observational and experimental methods.

512: Advanced Immunology. 6-1-3. Preq., consent of the instructor. An advanced study of the activities of antibodies and antigens.

513: Ecological Topics. 0-3-3 (6). Preq., BISC 313, or 413. An advanced study of selected ecological topics. Offered on demand.

515: Graduate Environmental Plant Physiology. 0-3-3. Fundamentals of environmental biology and physiological responses of plants to their environment. Emphasis is placed on the mechanisms underlying physiological responses.

516: Contemporary Topics. 1-4 hour(s) credit. An opportunity to examine and discuss a variety of timely topics pertaining to the biological sciences. May be repeated with a change in subject matter.

517: Applied Biological Sciences Research. 6-1-3. Preq., BISC 502. Laboratory or field studies for non-thesis Master of Science students in the biological sciences. Provides graduate training in applied research skills.

519: Graduate Plant Pathology. 3-2-3. Intermediate and advanced concepts related to the interaction of plants with plant pathogens.

521: Principles of Cell and Molecular Biology. 0-3-3. Principles of cell and molecular biology, including molecular structure and function, cellular processes, bioenergetics, and regulation of metabolism.

522: Graduate Molecular Biology. 0-3-3. Emphasis on protein structure and function, DNA and RNA, replication, transcription, translation, and control of gene expression. Molecular techniques including transformation, plasmids, PCR, and blotting.

526: Graduate Histology. 8 ½-1-3. Microscopic study of animal tissues with an emphasis on structural and functional relationships.

528: Advanced Wetland Ecology. 0-3-3. Study of wetland characteristics and the ecological processes occurring within wetlands. Wetland delineation, restoration, construction, and regulation will also be covered. Credit will not be given for BISC 528 if credit is given for FOR 528.

530: Biological Sciences Special Problems. 1-6 hours. Preq., written permission of instructor and Advisory Committee Chairperson. No more than 6 hours credit combined with BISC 540 and 541.

532: Graduate Mammalogy. 4 ½-2-3. Preq., BISC 132, 133. The biology of mammals with emphasis on taxonomy, evolution, distribution, identification, order, and family characteristics, plus emphasis on study techniques.

533: Graduate Ornithology. 4 ½-2-3. Preq., BISC 132, 133. The biology of birds with emphasis on taxonomy, evolution, distribution, identification, and study techniques.

535: Current Topics in Biological Sciences. 0-1-1 (4). Preq., graduate status. An interactive discussion of current issues and problems in the biological sciences. May be repeated for credit with change of course content.

540: Biological Sciences Internship. 40-0-3. Preq., Graduate standing, consent of Advisory Committee Chairperson and Instructor. Career-oriented job experiences. No more than 6 hours credit combined with BISC 530, 540, or 541.

541: Biological Sciences Internship. 40-0-3. Preq., Graduate standing, consent of Advisory Committee Chairperson and Instructor. Career-oriented job experiences. No more than 6 hours credit combined with BISC 530, 540, or 541.

542: Graduate Mycology. 4 ½-2-3. A detailed field and laboratory study of the Kingdom Fungi emphasizing diversity, ecology, and evolution.

544: Graduate Environmental Microbiology. 4-2-3. Microecology in soil/water environments, industrial microbiology, and selected topics in symbiosis.

551: Research and Thesis in Biology. (Pass/Fail). Preq., 12 semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.

554: Graduate Microbial Ecology and Diversity. 4-2-3. A detailed study of the interactions of prokaryotic and eukaryotic microbes and their evolution.

562: Graduate Virology. 3-2-3. Intermediate and advanced concepts related to virology, with emphasis on virus nomenclature, structure, taxonomy, replication, and the consequences of virus infections in organisms and populations.

566: Graduate Medical Anthropology. 0-3-3. Anthropology of medicine emphasizing non-western perspectives of disease causation and curing, ethnic psychoses, ethnobotany, human disease history, alternative medicine and biocultural approaches to health issues.

567: Graduate Biological Anthropology. 0-3-3. Biological anthropology emphasizing primate anatomy, behavior and systematics, the human fossil record, evolution of human behavior, human adaptation, and the relationship of biology to culture.

570: Graduate Medical Ethics. 0-3-3. Intensive discussions, presentations, and readings concerning the theories of ethics and their applications to the practices of the health professions.

590: Graduate Microscopy Techniques. 0-3-3. Theory and techniques necessary for microscopy and histological studies.

591: Graduate PCR – Methods and Applications. 0-3-3. DNA and RNA extraction and analysis techniques, including real-time approaches for gene expression studies.

592: Graduate Protein Analysis. 3-2-3. Laboratory methods used for protein analysis. Techniques include protein extraction and quantification, polyacrylamide electrophoresis, and blotting.

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**BIOMEDICAL ENGINEERING (BIEN)**

202: BME Principles I. 0-1-1. Coreq., CHEM 102, BISC 225; Preq., MATH 240. Basic qualitative and quantitative principles of biomedical engineering are presented. The general field of biomedical engineering is emphasized with introduction of conservation and modeling concepts.


204: BME Principles III. 0-1-1. Preq., BIEN 203. A continued introduction to the role of engineering in analyzing physiological systems and in designing devices and instrumentation to study and treat biomedical problems.

225: Biomedical Systems. 0-3-3. Preq., ENGR 221 and MATH 244. Analysis techniques for frequency and time domain signals that occur in linear and non-linear physiological systems. Lumped modeling of physiological phenomena.


301: Biomedical Fluid Mechanics and Biomedical Energy Transport. 0-3-3. Preq., BIEN 202, PHYS 202, BISC 321, ENGR 222, and cumulative Math GPA of at least 2.0 in Math 240 through 245. The principles of fluid mechanics and thermal energy exchange (momentum and energy balances) in biomedical systems.


320: Bioenergetics. 0-3-3. Preq., MATH 242, PHYS 201, BIEN 204. The thermodynamics of living systems. The laws of thermodynamics are emphasized and applied to biological systems.

325: Bioinstrumentation. 3-2-3. Preq., BIEN 225, PHYS 202, BISC 227, cumulative Math GPA of at least 2.0 in Math 240 through 245. Analysis and design of biomedical instrumentation. Basic circuitry, electronics and laboratory techniques including transducers, biopotentials, amplifiers, measurement and safety.

400: Biomedical Engineering Seminar. 3-0-1. Preq., BIEN 400, 425. Instruction and practice in conference-type discussions of technical and professional matters of interest to biomedical engineers.

401: Biomedical Mass Transport. 0-3-3. Preq., BIEN 301, MATH 245. The principles of mass balances and transport phenomena in biomedical systems. Analysis of engineering and physiological systems and incorporation of these principles into the design of such systems.

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at [http://www.regents.state.la.us](http://www.regents.state.la.us) and the school you are transferring to for additional information.*
<table>
<thead>
<tr>
<th>Course Number</th>
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<th>Prerequisites</th>
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<tbody>
<tr>
<td>402</td>
<td>Biomedical Engineering Design I. 0-2-2.</td>
<td>Preq., BIEN 400, 401, 403, 430; ENGL 303. Individualized design projects requiring integration and synthesis of prior engineering, life science, design and analytical skills. Utilization of the engineering design process and consideration of biomaterials, biomechanics, humanities, ethical and legal concerns, and oral and written communication skills.</td>
</tr>
<tr>
<td>404</td>
<td>Biomedical Engineering Design II. 0-2-2.</td>
<td>Preq., BIEN 402. A continuation of BIEN 401, Biomedical Engineering Design I.</td>
</tr>
<tr>
<td>410</td>
<td>Clinical Engineering Internship. 20-20-6.</td>
<td>Preq., BIEN 310 or equivalent and consent. A practical exposure to the health care delivery system. Application of engineering principles to problems unique to that system.</td>
</tr>
<tr>
<td>425</td>
<td>Advanced Biomedical Instrumentation Systems. 3-2-3.</td>
<td>Preq., BIEN 325, MATH 245 for consent. Further analysis and design of biomedical instrumentation. Practical aspects of ideal and real operational amplifiers, and an introduction to microprocessor interfacing.</td>
</tr>
<tr>
<td>430</td>
<td>Biomechanics. 0-3-3.</td>
<td>Preq., BIEN 230, 301, ENGR 220. Mechanical properties and reactions of biological tissues and organs. Analysis of tissue, strain rate for biological and bio-artificial components.</td>
</tr>
<tr>
<td>435</td>
<td>Senior Biomedical Engineering Laboratory. 3-0-1.</td>
<td>Preq., BIEN 401, 403, and 430. Laboratory experiments that demonstrate concepts and techniques in biofluid mechanics, biomechanics, and biological mass transport.</td>
</tr>
<tr>
<td>450</td>
<td>Special Topics. 1-4 semester hours credit. May be repeated for credit.</td>
<td>Preq., senior standing and consent of instructor. Problems covering selected topics of current importance or special interest or need.</td>
</tr>
<tr>
<td>455</td>
<td>Biotechnology and Bioprocesses. 0-3-3.</td>
<td>Preq., BIEN 301, 401. Introduction to biotechnology and bioprocesses. Microbiology and biochemical reactions are reviewed. Enzyme kinetics, microbial growth transport phenomena, and design of biochemical reactors are studied. Cross-listed with CMEN 455. (G)</td>
</tr>
<tr>
<td>471</td>
<td>Neuroscience and Neural Engineering. 0-3-3.</td>
<td>Principles of neuroscience encompassing structure and function of the nervous system at the molecular, cellular, and system levels, including the visual, auditory, and motor systems.</td>
</tr>
<tr>
<td>472</td>
<td>Neuroscience Laboratory. 4-0-1.</td>
<td>Laboratory studies in neuroscience with a concentration on standard histological, anatomical, and physiological techniques.</td>
</tr>
<tr>
<td>500</td>
<td>Systems Physiology for Biomedical Engineers. 0-4-4.</td>
<td>Preq, Graduate standing and permission of the instructor. Principles of human physiology, including cellular physiology, and the nervous, muscular, cardiovascular, and respiratory systems for engineers. Graduate core course.</td>
</tr>
<tr>
<td>501</td>
<td>Physiological Modeling I. 0-4-4.</td>
<td>Preq., BIEN 500 and Differential Equations, or consent of instructor. Principles of transport phenomena and mathematical modeling with applications to biomedical systems and devices.</td>
</tr>
<tr>
<td>510</td>
<td>Biomeasurement. 0-4-4.</td>
<td>Preq., Graduate standing and consent of instructor. Introduction to medical instrumentation systems, biosensors, biopotentials, signal conditioning, analog-to-digital conversion, and signal processing. Graduate core course.</td>
</tr>
<tr>
<td>515</td>
<td>Biosensors and Their Applications. 4-2-3.</td>
<td>Permission of instructor. Introduction to biosensors in general with special emphasis on oxygen biosensors and their development. Surgical techniques and laboratory procedures for animal experimentation.</td>
</tr>
<tr>
<td>520</td>
<td>Protein Engineering. 0-3-3.</td>
<td>Preq., Approval of instructor. Protein structure and function, DNA structure, protein design, gene design, biophysical techniques for analysis of protein structure, proteins, and peptides in biotechnology, biomedicine, and nanosystems bioengineering.</td>
</tr>
<tr>
<td>533</td>
<td>Biomedical Optics. 0-3-3.</td>
<td>Preq., BIEN 510 and instructor approval. Interaction of radiation with cells and tissue. Diagnostic and therapeutic applications of optics in medicine and biology. Point measurements, imaging, and microscopy.</td>
</tr>
<tr>
<td>540</td>
<td>System Analysis and Mathematical Modeling of Physiological Phenomena. 0-3-3.</td>
<td>Preq., permission of instructor. The course deals with the analysis of biological systems and the theory behind the development and solution of mathematical models for the description of biological system behavior.</td>
</tr>
<tr>
<td>550</td>
<td>Special Topics. 1 - 4 hours credit.</td>
<td>Preq., Permission of instructor. May be repeated for credit. Selected topics dealing with advanced subjects in biomedical engineering.</td>
</tr>
<tr>
<td>551</td>
<td>Research and Thesis in Biomedical Engineering. (Pass/Fail). Preq., 12</td>
<td>semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.</td>
</tr>
<tr>
<td>555</td>
<td>Practicum. 0-3-3 (6).</td>
<td>Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of an engineering problem; technical literature survey required; development of engineering research techniques. (Pass/Fail).</td>
</tr>
<tr>
<td>556</td>
<td>Biomedical Engineering Internship. 20-0-6.</td>
<td>Preq., permission of instructor. Graduate level internship emphasizing application of engineering design principles in a research, health care or rehabilitation setting.</td>
</tr>
<tr>
<td>557</td>
<td>Special Topics: Biomedical Engineering. 0-3-3 (9). The topic or topics will</td>
<td>be selected by the instructor from the various sub-areas of biomedical engineering. May be repeated as topics change.</td>
</tr>
<tr>
<td>560</td>
<td>Review of Assistive Technology in Rehabilitation. 0-3-3.</td>
<td>Preq., permission of instructor. Study of physical disabilities and the rehabilitation process.</td>
</tr>
<tr>
<td>570</td>
<td>Artificial Intelligence Applications in Biomedical Engineering. 0-3-3.</td>
<td>Preq., Prior introduction to artificial intelligence fundamentals. Artificial intelligence and expert systems application in medical and biomedical problems. Fundamental contributions of medical expert systems.</td>
</tr>
<tr>
<td>571</td>
<td>Graduate Neuroscience and Neural Engineering. 0-3-3. Principles of</td>
<td>neuroscience encompassing structure and function of the nervous system at the molecular, cellular, and system levels, including the visual, auditory, and motor systems.</td>
</tr>
<tr>
<td>575</td>
<td>Artificial Neural Networks. 0-3-3.</td>
<td>Presentation of foundational concepts and constructs used to analyze and characterize artificial neural network paradigms, their attributes, their applications and their implementations.</td>
</tr>
<tr>
<td>599</td>
<td>Graduate Seminar. 0-1-1. (Pass/Fail). Issues in graduate education.</td>
<td>Presentations of current topics in research, teaching, and practice. May be repeated for credit.</td>
</tr>
<tr>
<td>610</td>
<td>Doctoral Seminar in Biomedical Engineering. 0-3-3 (3). (Pass/Fail).</td>
<td>Required for PhD Biomedical Engineering students each Fall. The seminar will cover research methodology, issues in graduate education, and presentations on current research by faculty, doctoral students, and distinguished visitors. Only 3 semester hours will apply toward the candidates plan of study.</td>
</tr>
<tr>
<td>651</td>
<td>Dissertation Research. (Pass/Fail). Doctoral students only. Registration</td>
<td>in any quarter is for 3 semester hours or multiples thereof, up to a maximum of 9 semester hours per quarter. Maximum credit applicable towards the degree is 30 semester hours.</td>
</tr>
<tr>
<td>685</td>
<td>Doctoral Qualifying Examination. No credit. (Pass/Fail). Doctoral standing</td>
<td>required. Required for all students seeking to take the qualifying examination in biomedical engineering. Successful completion is a prerequisite for admission to candidacy.</td>
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</table>

**BUSINESS COMMUNICATION (BSCM)**

<table>
<thead>
<tr>
<th>Course Number</th>
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</tr>
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</table>
475: Business Communication. 0-2-2. (Pass/Fail). Non-degree credit. A course designed for improving communication skills, both oral and written, when communicating in a business environment.

520: Directed Research and Readings. 0-3-3. Research methodology; problems requiring independent organization of research, implementation, outline of solution, and preparation of reports. Emphasis placed on problem solving for policy-making decisions.

620: Business Research Methods. 0-1-1. A study of research methodology used in business administration, a review of research completed in respective DBA areas, and the development of a dissertation proposal. (May be repeated for a total of 3 hours credit.)

**BUSINESS LAW (BLAW)**

255: Legal Environment of Business. 0-3-3. Studies relations and effect of law on business, society, and the individual, including ethical considerations, history, court system, torts, government regulation, contracts, and business organization.

356: Commercial Law. 0-3-3. A study of specific topics of law essential to the business decision-making process. Areas of law covered include contracts, commercial paper, agency, and sales.

410: Business Law for Accountants. 0-3-3. Preq., BLAW 255 and senior standing. A concentrated study of all topical areas of business law. Coverage includes contracts, credit transactions, governmental regulations, business organizations, bankruptcy, and property and related topics. (G)


**CHEMICAL ENGINEERING (CMEN)**


213: Unit Operations-Design I. 0-3-3. Preq., CMEN 202, 254, MATH 244. Design procedures for equipment and processes involving fluid flow and fluid mixing, with emphasis on computer assisted design techniques.

254: Laboratory Measurements and Report Writing. 5-1-2. A study of chemical process variables and material balances with an introduction to technical report writing.

304: Transport Phenomena. 0-3-3. Preq., CMEN 213, 313, 413, MATH 245, cumulative GPA 2.0 for Math 240 through Math 244. Fundamental principles of energy, mass, and momentum transfer and transport processes.

313: Unit Operations-Design II. 0-3-3. Preq., CMEN 213. Design procedures for equipment and processes involving heat transfer, with emphasis on computer assisted design techniques.


353: Chemical Engineering Junior Laboratory. 3-0-1. Preq., CMEN 254, 313. Laboratory study of fluid phenomena, heat transfer processes and equipment, and evaporation.

402: Chemical Reaction Engineering. 0-3-3. Homogeneous and heterogeneous chemical reaction kinetics, applications to ideal and real reactor types. (G)

407: Instrumentation and Automatic Process Control. 3-2-3. Survey of process instrumentation methods, and the analysis and design of feedback, feed forward, and cascade control systems. (G)

408: Pulp and Paper Processes. 0-3-3. Preq., senior standing in CMEN. Introduction to the pulp and paper industry, its terminology, technology and economics. Conversion of various cellulosic materials into unbleached pulp and paper products. (G)

411: Environmental Chemodynamics. 0-3-3. Preq., CMEN 413 and senior standing in CMEN. A study of the modeling and prediction of the movement and fate of synthetic chemicals in the air-water-earth environments. Cross-listed with CVEN 411. (G)

413: Unit Operations-Design III. 0-3-3. Preq., CMEN 313. Application of design procedures for equipment and processes involving evaporation, distillation, leaching, extraction, gas absorption and desorption, with emphasis on computer assisted design techniques.

415: Theory and Practice of Radiation Protection and Shielding. 0-3-3. Preq., senior standing. An introduction to principles of dosimetry. The concepts of probability of causation, risk assessment, and methods of establishing exposure limits will be discussed. (G)


432: Chemical Plant Design II. 0-2-2. Preq., senior standing in CMEN and CMEN 430. Comprehensive problems are assigned, the solution of which enables one to calculate dimensions and capacities of required plant equipment. Computer applications.


435: Polymer Engineering. 0-3-3. Polymer technology and processes including polymer structure, states, and transitions; kinetics of polymerization; molecular weight determination; viscous flow; mechanical properties; polymer degradation; analysis and identification. (G)

442: Process Optimization. 0-3-3. An objective study of the present status of optimization methodology as applied to the chemical process industries. Deterministic and non-deterministic systems are considered. (G)

443: Air Pollution Control Design. 0-3-3. An overview of the air pollution problem. Design of devices to control emissions (VOCS, NOx, SO2, participates, etc.) Cost estimation of air pollution control systems. (G)

450: Special Problems. 1-4 semester hours credit. Problems covering selected topics of current importance or special interest or need. (G)

451: Senior Chemical Engineering Laboratory. 4.5-0-1. Laboratory study and report writing in reactor design and mass transfer operations.

452: Special Projects Laboratory. 1 hour credit. Selected comprehensive problems. Study and/or laboratory development of: industrial unit operations; new chemical processes; improvement of established processes; economic evaluations. Theoretical studies.

455: Biochemical Engineering. 0-3-3. Preq., CMEN 402. Introduction to biotechnology and bioprocesses. Microbiology and biochemical processes are reviewed. Enzyme kinetics, microbial growth transport phenomena, and design of biochemical reactors are studied. Cross-listed with BIEN 455. (G)

456: Hazardous Waste Management. 0-3-3. A study of the legislation, regulation, technology, and business matters relating to hazardous waste management. (G)

475: Combustion, Fires and Explosions. 0-3-3. Nature of combustion, controlled and free burning fires, and evaluation of explosion hazards. (G)

501: Advanced Unit Operations. 0-3-3. Design calculations applicable to various unit operations including drying, humidification, absorption, adsorption, distillation, heat exchangers, ion exchange, cooling towers and filtration.


513: Transport Phenomena. 0-3-3. A course in which advanced concepts on momentum, energy, and mass transport is explored. Emphasis is placed on unsteady state behavior, turbulence, and recent developments in the literature.

521: Energy Analysis of Industrial Processes. 0-3-3. Preq., . An undergraduate course in thermodynamics. The application of the concept of energy, or energy availability, to the systematic analysis of processes and plants to make most efficient use of limited energy resources.

522: Advanced Thermodynamics. 0-3-3. The relations of thermodynamic properties are developed. Problems on the expansion and compression of non-gases, liquefaction, low temperature separation are studied.

524: Seminar. 0-1-1 each. Surveys, investigations, and discussions of current problems in Chemical Engineering.

550: Special Problems. 1-4 semester hours. Preq., consent of instructor. Selected topics dealing with advanced problems in chemical engineering and design of equipment. The problems and projects will be treated by current methods used in professional practice.

551: Research and Thesis in Chemical Engineering. (Pass/Fail). Preq. 12 semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.

555: Practicum. 0-3-3 (6). Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of an engineering problem; technical literature survey required; development of engineering research techniques. (Pass/Fail)
557: Special Topics: Chemical Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of chemical engineering. May be repeated as topics change.

CHEMISTRY (CHEM)

100: General Chemistry. 0-2-2. Preq., MATH 101. Fundamental principles of chemistry: Chemistry and measurement, atomic symbols and chemical formulas, stoichiometry, gases and thermochemistry. Statewide Transfer Agreement Course.*

101: General Chemistry. 0-2-2. Preq., CHEM 100. Continuation of CHEM 100: Atomic and molecular structure, theories of molecular bonding, liquids, solids and solutions. Statewide Transfer Agreement Course.*


103: General Chemistry Laboratory. 4 1/4-0-1. Coreq., CHEM 101. Laboratory practice in general chemistry. Statewide Transfer Agreement Course.*

104: General Chemistry Laboratory. 4 1/4-0-1. Preq., CHEM 103. Continuation of CHEM 103. Statewide Transfer Agreement Course.*


120: An Introduction to Inorganic Chemistry. 0-3-3. Topics covered will include scientific units, states of matter, the electronic structure of atoms, the chemical bond, solutions, reaction kinetics, acid-base theory, and buffer solutions. Statewide Transfer Agreement Course.*

121: An Introduction to Organic Chemistry and Biochemistry. 0-3-3. Preq., CHEM 120 or 102. Survey of hydrocarbons and their derivatives; biomolecules including proteins, sugars, lipids, and nucleic acids. Not to be used as a prerequisite for advanced chemistry courses.

122: Chemistry Laboratory. 4-0-1. Preq., CHEM 120. Basic laboratory experiments in inorganic, organic, and biochemistry.

205: Analytical Chemistry. 4 1/4-3-4. Preq., CHEM 102. Theory and practice of analytical chemistry.

250: Organic Chemistry. 0-2-2. Preq., CHEM 102. Introduction to organic chemistry with emphasis on structure and reactivity of aliphatic hydrocarbons and alkyl halides. Statewide Transfer Agreement Course.*

251: Organic Chemistry. 0-2-2. Preq., CHEM 250; Coreq., CHEM 255. Continuation of CHEM 250 with emphasis on aromatic hydrocarbons, alcohols, aldehydes, ketones, and related reaction mechanisms and spectroscopy. Statewide Transfer Agreement Course.*

252: Organic Chemistry. 0-2-2. Preq., CHEM 251; Coreq., CHEM 254. Continuation of CHEM 251 with emphasis on carbonyl compounds, aliphatic and aromatic amines, phenols, carbohydrates and related reaction mechanisms. Statewide Transfer Agreement Course.*

253: Organic Chemistry Laboratory. 4 1/4-0-1. Preq., CHEM 102; Coreq., CHEM 251. Selected experiments emphasizing both laboratory operations and related basic principles and mechanisms.

254: Organic Chemistry Laboratory. 4 1/4-0-1. Preq., CHEM 253; Coreq., CHEM 252. Introduction to multi-step organic syntheses and related reaction mechanisms.

281: Inorganic Chemistry. 4 1/2-2-3. Preq., CHEM 102 and 104. Introduction to inorganic chemistry, including a systematic study of the periodic table with emphasis on structure, properties and reactivity of the elements of inorganic compounds.

311: Physical Chemistry. 0-3-3. Preq., CHEM 102 and 252, MATH 242 and PHYS 202 or 209. Basic theories of chemistry with emphasis on gases, chemical thermodynamics and phase equilibria.

312: Physical Chemistry. 0-3-3. Preq., CHEM 311. Basic theories of chemistry with emphasis on chemical kinetics, quantum theory, statistical thermodynamics and molecular spectroscopy.

313: Physical Chemistry Laboratory. 4 1/4-0-1. Coreq., CHEM 311. Laboratory experiments in physical chemistry.

314: Physical Chemistry Laboratory. 4 1/4-0-1. Preq., CHEM 311; Coreq., CHEM 312. Continuation of CHEM 313.

351: Biochemistry. 0-3-3. Preq., CHEM 252 and 254. The chemistry of biologically important compounds including fats, carbohydrates, proteins, enzymes, vitamins, and hormones.


353: Biochemistry Laboratory. 4 1/4-0-1. Coreq., CHEM 351. Techniques applicable to current biochemistry with emphasis on basic research procedures.

354: Biochemistry Laboratory. 4 1/4-0-1. Preq., CHEM 351 and CHEM 353. Techniques applicable to current biochemistry with emphasis on metabolism and molecular biology.

390: Chemical Literature. 0-1-1 (2). A survey of chemical information sources and strategies for choosing appropriate sources to solve specific chemical information problems.


420: Chemical Thermodynamics. 0-3-3. Preq., CHEM 312. An introduction to chemical thermodynamics.

424: Advanced Physical Chemistry. 0-3-3. CHEM 312 or PHYS 410 and MATH 245. A continuation of CHEM 311-312, including an introduction to quantum chemistry, and a quantum mechanical approach to the study of the structure of atoms and molecules.

450: Chemical Topics. 1-4 hour(s) credit (8). Preq., CHEM 312 and consent of instructor. An opportunity to observe and discuss topics of current interest in the chemical sciences. Offered on demand.

466: Instrumental Analysis. 8 1/2-2-4. Preq., CHEM 312. Theory and practice of optical methods of analysis, advanced electrical techniques, and modern separation methods. (G)

481: Advanced Inorganic Chemistry. 4 1/2-2-3. Preq., CHEM 252, 312. An advanced study of the periodic classification of elements, their reactions, and other inorganic principles. (G)

490: Chemistry Seminar. 0-1-1 (3). Preq., Senior or graduate standing. Required of chemistry graduate students. Supervised organization and presentation of topics from the chemical literature. (G)

498: Undergraduate Research. 1-3 hours credit (6). Preq., consent of instructor. Introduction to methods of research and completion of a basic research problem.


502: Selected Topics in Organic Chemistry. 0-3-3 (6). Preq., CHEM 409. Areas covered will vary; however they will generally include advanced organic synthesis and related structure identification with emphasis on spectroscopic techniques.

503: Topics in Chemistry. 1-3 hours credit (6). Independent study. Topics arranged to meet the needs of the student.


523: Special Topics in Physical Chemistry. 0-3-3. Preq., CHEM 312. Topics will vary and will include kinetic theory of gases, molecular structure, phase rule, photochemistry, nuclear chemistry, chemical kinetics, or statistical thermodynamics.

524: Quantum Chemistry. 0-3-3. Preq., CHEM 312. Physical and chemical applications of quantum theory.

555: Special Topics in Biochemistry. 0-3-3 (9). Preq., CHEM 351. Topics covered will vary and may include toxicology and clinical biochemistry.

556: Protein Chemistry. 0-3-3. Preq., CHEM 351. The chemical nature and physiology of both structural and metabolic proteins.

563: Advanced Analytical Chemistry. 0-3-3. Preq., CHEM 466. Theoretical aspects of the optical, chemical, and separation techniques of analytical chemistry.

564: Selected Topics in Analytical Chemistry. 0-3-3. Selected topics in chemical separations or spectroscopy.

584: Chemistry of Coordination Compounds. 0-3-3. Preq., CHEM 481. A study of the structure, preparation, and properties of coordination compounds.

586: Special Topics in Inorganic Chemistry. 0-3-3. Preq., CHEM 584 or instructor's permission. A topic will be selected on a rotating basis from the following: magnetic and electric properties, solid state structures, catalysis, and group theory applications of inorganic materials.

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.
CIVIL ENGINEERING (CVEN)

202: Civil Engineering Materials Laboratory. 4-0-1. Coreq., MEMP 201.
Introduction to laboratory testing of aggregates, concrete, asphalt, steel, and other materials used by civil engineers.

254: Plane Surveying. 4-2-3. Preq., MATH 112 or 240. Theory, field measurements, and computation and error analysis associated with land, traverse, and topographic surveys.

300: The Civil Engineering Profession. 0-3-3. Preq., sophomore standing.
Open only to civil engineering students. The civil engineering profession and its effect on society. History and heritage, current professional practices and techniques, concepts and challenges for the future.


Introduction to the unit operations and processes most often encountered in water and wastewater treatment.

324: An Introduction to Soils Engineering. 4-1-2. Preq., ENGL 303, MEMP 211. Introduction to soil mechanics and its application to civil engineering. A presentation of soil properties and characteristics pertinent to various engineering situations, problems and designs.

325: Introduction to Foundation Engineering. 0-3-3. Preq., CVEN 324. Consideration of bearing capacity, settlement of structures, slope stability, foundation design requirements, subsurface exploration, regional soil conditions, footings, mats, and retaining walls.

332: Transportation Engineering I. 0-3-3. Preq., ENGR 122. Introduction to transportation facilities; urban transportation planning; traffic, design, safety, and the environment.


357: Engineering and Construction Surveying. 4-1-2. Preq., CVEN 254. Horizontal/vertical curves; earthwork; topographic/planimetric surveys for map/drawing construction; engineering use of State Plane Coordinate System; surveys for buildings, pipelines, and others.

392: Numerical Methods in Civil Engineering. 3-1-2. Preq., MATH 245 and ENGR 122. Application of microcomputers to solve problems using numerical techniques and statistical applications. Use of application software to solve engineering problems.


414: Bituminous Mixture Design. 3-2-3. Preq., senior standing. Selection of binders and aggregates for mixture design processes. Methods include Marshall, Hveem and SUPERPAVE. Laboratory mixes will be designated and tested. (G)

417: Groundwater Hydrology. 0-3-3. Preq., CVEN 310. Groundwater occurrence, movement and quality, well hydraulics, basin development, and model studies. (G)

421: Portland Cement Concrete. 0-3-3. Production, testing, uses, and performance of Portland cement and Portland cement concrete (PCC). Detailed investigation into PCC components. Admixtures and special concretes. (G)

423: Introduction to Asphalt Technology. 3-2-3. Preq., senior standing. Production and uses of asphalt; measurement and significance of laboratory properties including viscosity, penetration, flash point, ductility, solubility, thin film oven test and specific gravity. (G)

425: Traffic Engineering. 0-3-3. Preq., CVEN 332. Traffic characteristics, vehicle operating characteristics, traffic control, and design of traffic facilities. Basic traffic studies, capacity, signing and signalization, speed regulation and parking. (G)

427: Design of Highway Pavements. 0-3-3. Preq., CVEN 324. Flexible and rigid pavement types. Factors affecting stresses and strains in pavement layers. Design criteria and structural design methods for highway pavements. (G)

436: Construction Equipment and Methods. 0-3-3. Preq., Junior standing, and ENGR 122 or INEN 300. Study of economics and functional applications of construction equipment. Operation characteristics are identified for selected equipment items, and are applied to typical construction situations. (G)


439: Construction Planning, Contracts and Specifications. 0-2-2. Preq., INEN 300 or ENGR 122, and junior standing. Introduction to methods for planning and scheduling construction projects and specifications. Team efforts on problems and case studies.

440: Foundation Engineering. 0-3-3. Preq., CVEN 325 or consent of instructor. Theory and applications in foundation engineering design; application of soil mechanics. (G)

450: Special Problems. 1-4 hours credit. Preq., senior standing and consent of instructor. Planning, organization, and solution of problems in Civil Engineering.


457: Practical Surveying. 4-0-3. Preq., CVEN 355, 357, or 456. An on-the-job training program; student is employed by registered professional surveyor for 300 working hours (minimum); work to be approved by program chair.

459: Introduction to Infrastructure Management. 0-3-3. Preq., junior standing. Lifecycle approach to planning, designing, and managing infrastructure (highways, streets, utilities); infrastructure decision support systems; performance measures and prediction; computer applications; case studies. (G)

464: Advanced Design of Concrete Structures. 0-3-3. Preq., CVEN 341. Advanced topics in the design of reinforced and prestressed concrete structures. (G)

466: Advanced Structural Design. 0-3-3. Preq., CVEN 341. Advanced topics in the design of steel and timber structures. Load and resistance factor design. (G)

480: Introduction to Trenchless Technology. 0-3-3. Preq., CVTE 210 or MEMP 313. Basic technologies, design considerations and construction practices for underground infrastructure construction and rehabilitation with minimal ground surface disturbance.

492: Civil Engineering Design I. 3-0-1. Preq., senior standing and within 3 quarters of graduation. Open-ended design problems typical of those encountered in the Civil Engineering profession and calling for the integration of geotechnical, structures, transportation and water resources.


503: Urban Hydrosystems Engineering. 4-2-3. Preq., CVEN 411 or consent of instructor. Water supply and distribution, wastewater conveyance and treatment, and storm water management and flood control in an urban environment.

504: Pollution Control and Residuals Management. 4-2-3. Preq., CVEN 314 or consent of instructor. Control, treatment, and management of solid and hazardous waste, pollution, and wastewater.

505: Buried Structures – Rehabilitation and Management. 4-2-3. Preq., MEMT 201 and CVEN 324 or consent of instructor. Deterioration mechanisms, evaluation, rehabilitation and repair methods, and construction aspects of buried infrastructure systems including pipes, tunnels, and chambers.
506: Above Ground Structures: Assessment and Rehabilitation. 4-2-3. Preq., MEMT 201, CVEN 342, and CVEN 343 or consent of instructor. Deterioration mechanisms, non-destructive testing methods, rehabilitation/rehabilitation methods and techniques of above ground structures, including bridges, pavements, and buildings.

507: Process Dynamics in Environmental Systems. 0-3-3. Preq., CVEN 314 or consent of instructor. Basic physical and chemical principles used to quantify, analyze, and design systems for treating water, wastewater, and industrial waste. Effects of contaminants on natural systems.


514: Bituminous Mixture Design. 3-2-3. Selection of binders and aggregates for mixture design processes. Methods include Marshall, Hveml and SUPERPAVE. Laboratory mixes will be designed and tested.

519: Techniques for Pavement Rehabilitation. 0-3-3. Evaluation of roadway distress, roughness, friction, drainage and structural surveys will be discussed. Survey results used to identify cost-effective techniques for pavement rehabilitation.


550: Special Problems. 1-4 hours credit. Advanced problems in Civil Engineering will be assigned according to the ability and requirements of the student. An opportunity will be afforded to plan, organize, and complete solutions in problems of considerable magnitude with a view toward developing confidence and self-reliance.

551: Research and Thesis in Civil Engineering. (Pass/Fail). Preq., 12 semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.

555: Research and Communications Seminar. 0-3-3. Preq., 12 semester hours of graduate work. Oral and written communication of literature search.

557: Special Topics: Civil Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of civil engineering. May be repeated as topics change.

580: Trenchless Technology. 0-3-3. Preq., MEMT 313 and CVEN 324. Survey of trenchless technologies, underground infrastructure management, cased-in-place, slip lining and fold and form rehabilitation, horizontal directional drilling, pipe jacking and microtunneling. Credit will not be given for both CVEN 480 and 580.

599: Graduate Seminar. 0-1-1. Issues in graduate education. Presentations of current topics in research, teaching and practice. May be repeated for credit. (Pass/Fail).

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**CIVIL TECHNOLOGY (CVTE)**

100: Introduction to Construction. 3-2-3. An introduction to the construction industry, the work of professional construction managers and technologies, the curriculum, and the reading of building and highway plans.


424: Seminar. 3-0-1. Preq., senior status. Reading and discussion of assigned papers, presentation of current issues in construction, and discussions with professional construction personnel.


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**CLINICAL LABORATORY SCIENCE (CLAB)**

460: Clinical Hematology. 2-6 semester credit hours. Preq., consent of instructor. Advanced concepts in the theory, application and medical interpretation of hematological and hemostatic mechanisms and methods.

461: Clinical Hematology Laboratory. 1-5 semester credit hours. Preq., consent of instructor. Instruction and laboratory practice in the development and use of advanced analytical procedures and instrumentation in clinical hematology and hemostasis.

462: Clinical Serology and Immunology. 1-4 semester credit hours. Preq., consent of instructor. Advanced concepts in the theory, application and medical interpretation of serological and immunological mechanisms and methods.

463: Clinical Serology and Immunology Laboratory. 1-4 semester hours credit. Preq., consent of instructor. Practical instruction and laboratory practice in the performance of serological and immunological procedures.

465: Clinical Bacteriology Laboratory. 1-2 semester credit hours. Preq., consent of the instructor. Advanced concepts in the use and interpretation of medical bacteriological procedures and data.

466: Clinical Bacteriology Laboratory. 3-7 semester credit hours. Preq., consent of the instructor. Instruction and laboratory practice in the development and use of advanced analytical procedures and instrumentation in clinical bacteriology.

467: Clinical Immunohematology. 1-4 semester credit hours. Preq., consent of the instructor. An advanced study of the principles of immunohematology necessary to provide a patient with a safe blood transfusion.

468: Clinical Immunohematology Laboratory. 1-5 semester credit hours. Preq., consent of instructor. Practical instruction and laboratory practice in immunohematological procedures utilized in a hospital blood bank.

469: Clinical Chemistry Laboratory. 1-2 semester credit hours. Preq., consent of the instructor. Advanced concepts in the theory application, and medical interpretation of clinical biochemical mechanisms and methods.

474: Clinical Urinalysis. 1-3 semester credit hours. Preq., consent of instructor. Advanced concepts in the use and interpretation of urinalysis procedures and data.

475: Clinical Urinalysis Laboratory. 1-3 semester credit hours. Preq., consent of instructor. Practical instruction and laboratory practice in the performance of urinalysis procedures.

476: Clinical Parasitology, Mycology and Mycobacteriology. 1-2 semester credit hours. Preq., consent of instructor. Advanced concepts in the use and interpretation of procedures and data in clinical parasitology, mycology, and mycobacteriology.

477: Clinical Parasitology, Mycology and Mycobacteriology Laboratory. 1-2 semester credit hours. Preq., consent of instructor. Instruction in laboratory practice in the development and use of advanced analytical procedures in clinical mycology, parasitology, and mycobacteriology.

478: Clinical Laboratory Administration. 1-3 semester credit hours. Preq., consent of instructor. Modern management concepts for the clinical laboratory.

480: Clinical Medical Technology Problems. 1-8 semester credit hours. Preq., consent of instructor. An introduction to emerging medical technologies.

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483: Clinical Parasitology. 1-2 semester credit hours. Identification, clinical significance, and methods of prevention of parasitic infections.

484: Clinical Parasitology Laboratory. 1-2 semester credit hours. Instruction and laboratory practice in the development and application of medical parasitology laboratory methods.

485: Clinical Mycology. 1-2 semester credit hours. Identification, clinical significance and methods of prevention of mycotic infection.

486: Clinical Phlebotomy and Specimen Procurement. 1-3 semester credit hours. Preq., consent of instructor. Instruction and laboratory practice in phlebotomy and the collection of other specimens for clinical analysis. Specimen preservation and safe lab practices are included.

489: Clinical Chemistry and Toxicology Laboratory. 3-8 semester hours credit. Practical instruction and laboratory practice in clinical chemistry procedures, including associated instrumental analysis.

**COMPUTATIONAL ANALYSIS & MODELING (CAM)**

610: Doctoral Seminar in Computational Analysis & Modeling. 0-3-3. (Pass/Fail). Required for PhD Computational Analysis and Modeling students each Fall. The seminar will cover research methodology, issues in graduate education, and presentations on current research by faculty, doctoral students, and distinguished visitors. Only 3 semester hours will apply toward the candidates plan of study.

620: Special Topics in Computational Science and Engineering. 1-3 hours credit. May be repeated for 1-3 hours credit each time.

685: Doctoral Qualifying Exam – Mathematics. (Pass/Fail). No credit. Required for all students seeking to take the mathematics qualifying examination for the PhD in Computational Analysis and Modeling. Successful completion is a prerequisite for admission to candidacy.

686: Doctoral Qualifying Exam – Computer Science. (Pass/Fail). No credit. Required for all students seeking to take the computer science qualifying examination for the PhD in Computational Analysis and Modeling. Successful completion is a prerequisite for admission to candidacy.

690: Dissertation Research. (Pass/Fail). Doctoral students only. Registration in any quarter is for 3 semester hours or multiples thereof, up to a maximum of 9 semester hours per quarter. Maximum credit applicable towards the degree is 30 semester hours.

**COMPUTER INFORMATION SYSTEMS (CIS)**


310: Principles of Information Systems. 0-3-3. Preq., CIS 110, junior standing. Introduction to concepts and principles of information system resources, analysis, development, management, and applications.

315: Problem Solving and Introduction to Programming. 0-3-3. Preq., CIS 110. An introduction to programming concepts and principles (structures, algorithms, and problem solving) and hardware fundamentals.

325: Enterprise Systems and Integration. 0-3-3. Preq., CIS 110. Key enterprise systems concepts from functional, technical, and implementation perspectives with emphases on process-centered organizations and designing systems to support cross-functional businesses.


335: Application Development for the Internet. 0-3-3. Preq., CIS 310, 315, 323. Programming for Internet- and Intranet-based business applications. The principles of good software engineering and program clarity will be stressed.


401: Internship in CIS I. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

402: Internship in CIS II. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

444: Network Design & Implementation. 0-3-3. Preq., CIS 310, 315, 323. Issues of designing, implementing, and managing computer networks, including both Local Area Networks (LANs) and Wide Area Networks (WANs). (G)

450: Systems Analysis, Design, & Implementation. 0-3-3. Preq., CIS 335, 337, 444. An in-depth life cycle approach to information systems analysis, design, and implementation. (G)

510: Information Resource Management. 0-3-3. Preq., CIS 310. Attention is given to strategic implementation of technology, secure and effective systems, externally focused systems, along with the historical and social environment of information systems.

540: Topics in Information Technology Management. 0-3-3 (9). Preq., CIS 310 or equivalent. Leading edge IT management issues will be addressed: virtual teams, knowledge management, business process change, outsourcing, and evolving IT management roles. Course may be repeated up to 9 hours credit within 12 months of first registration.

547: Systems Integration and ERP. 0-3-3. Features and capabilities of enterprise systems, the methodologies used to implement these systems in organizations, and the implications of their deployment in organizations. Cross listed with CIS 647.


550: Directed Study in Computer Information Systems. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of computer information systems.

635: Advanced Computer Applications. 0-3-3. Requires Doctoral standing. May require additional class meetings. Study of the development and application of Expert Systems and use of development tools. Topics include: Knowledge Acquisition, System Development, and Validation/Verification. Credit will not be given for CIS 635 is credit is given for CIS 535.

640: Topics in Information Technology Management. 0-3-3. (9). Preq., CIS 310 or equivalent. Requires doctoral standing. May require additional class meetings. Leading edge Information Technology management issues will be addressed: virtual teams, knowledge management, business process change, outsourcing, and evolving IT management roles. Course may be repeated for up to 9 hours credit with change of title/subject matter. Cross listed with CIS 540.

641: Advanced Database Management. 0-3-3. Requires doctoral standing. Theoretical, applied, and organizational issues for large, complex database management systems including logical and physical database design, architecture considerations, emerging database technologies, and advanced applications.

642: Advanced Systems Analysis and Design. 0-3-3. Requires doctoral standing. Systems Development Life Cycle methodology choices and project deliverables for both structured and object oriented approaches, effective project management, and systems development research issues.

643: Advanced Data Communications. 0-3-3. Requires doctoral standing. Theory and applications of data telecommunications including telecommunications technology concepts, trends, and issues.

645: Seminar in IS research. 0-3-3. Requires doctoral standing. Study of the seminal research in information systems, significant subsequent research, dominant theories and frameworks, and current research opportunities.

646: Seminar in IS Research II. 0-3-3. Requires doctoral standing. Designing, conducting, and evaluating research on information systems phenomena. Topics include methodological choices for IS research, critical evaluation of research, and the publication process.

647: Systems Integration and ERP. 0-3-3. Requires doctoral standing. May require additional class meetings. Features and capabilities of enterprise systems, the methodologies used to implement these systems in organizations, and the implications of their deployment in organizations. Cross listed with CIS 547.


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650: Directed Study in Computer Information Systems. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of computer information systems.

685: Comprehensive Exam in Computer Information Systems. No credit. (Pass/Fail) Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in CIS. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in CIS. Requires consent of graduate director.

**COMPUTER SCIENCE (CSC)**

100: Overview of Computer Science. 0-3-3. Preq., MATH 101 or equivalent. An overview of the field of computing; history, impact on society, and current trends; together with an introduction to operating systems, editors, and rudimentary programming.

120: Introduction to Computer Programming. 0-3-3. Preq., CSC 100 or equivalent and MATH 240. An introduction to program development. Emphasis is placed on problem analysis, algorithm development, data and control structures.

122: Problematic Computer Programming. 0-3-3. Preq., CSC 120. The design and implementation of object-oriented, event-driven programs that incorporate Graphical User Interfaces.

210: Discrete Mathematics for Computer Scientists. 0-3-3. Preq., CSC 120 and MATH 241. An overview of the mathematical foundations of computing. Topics include sets, symbolic logic, relations, functions, combinatorics, induction, trees, graphs, and Boolean algebra.

220: Data Structures. 0-3-3. Preq., CSC 120. The definition, representation, and manipulation of basic data structures such as arrays, stacks, queues, trees, and graphs. Practical applications of these structures will be emphasized.

230: Software Design. 0-3-3. Preq., CSC 220. Design, construction and maintenance of large software systems. Topics include project planning, requirements analysis, software design methodologies, software implementation and testing, maintenance.

251: Computer Organization & Assembly Language. 0-3-3. Preq., CSC 220. Introduction to computer organization and operation, data representation and manipulation, assembly language programming, register level operations, peripheral device interfaces.

265: Introduction to Digital Design. 0-2-2. Preq., CSC 251; Coreq., CSC 269. Introduction to digital design techniques, Boolean algebra, combinational logic, minimization techniques, simple arithmetic circuits, programmable logic, sequential circuit design, registers and counters.

269: Digital Design Lab. 3-0-1. Coreq., CSC 265. Laboratory for digital design techniques, combinational and sequential logic design, registers and counters.

299: Cooperative Education Applications. 40-0-1 (7). Preq., Admission to the College of Engineering and Science Cooperative Education Program. Pass/Fail

310: Theory of Computing. 0-3-3. Preq., CSC 220 and MATH 311. An overview of formal languages, the abstract models of computing capable of recognizing those languages, and the grammar used to generate them.

325: Advanced Data Structures and Algorithms. 0-3-3. Preq., CSC 220. Advanced data structures and algorithm design. Topics include specialized trees, graphs, sets and tables, advanced searching and sorting, complexity analysis, and algorithm design techniques.

330: Programming Languages. 0-3-3. Preq., CSC 240, 325. Techniques for specifying the syntax and semantics of programming languages. Language concepts; execution environments; comparative analysis of programming languages.

345: Operating Systems. 0-3-3. Preq., CSC 240 & 265. An introduction to operating systems concepts. Topics include processor management, storage management, device management, performance, security, and case studies of common operating systems.

364: Computer Architecture. 0-3-3. Preq., CSC 265 & 269. Architecture and organization of computer systems. Topics include the processor, control unit and microprogramming, computer arithmetic, memory hierarchy and memory management, input/output, instruction sets.

404: Senior Capstone. 0-3-3. Preq., CSC 325 & senior standing. This course provides a forum for discussion of the social and ethical aspects of computing. Communication skills of students will be emphasized through professional presentations and formal written essays.

418: Computer Architecture and Operating Systems. 0-3-3. Preq., consent of instructor. Computer organization, and hardware design, digital logic, CPU structure, control unit, memory, and input/output; operating systems, process, scheduling, memory management, and file-system interface. (G)

419: Special Topics in Theory of Computing. 0-3-3. Preq., consent of instructor. Selected topics in the area of computing theory that are of current importance or special interest.

420: Design and Analysis of Algorithms. 0-3-3. Preq., CSC 325. Design and analysis of efficient algorithms. Topics include complex data structures, advanced searching and sorting, algorithm design techniques, and complexity analysis.

425: Discrete Mathematics, Data Structures and Algorithms. 0-4-4. Preq., Consent of instructor (cannot be applied for credit toward any Computer Science degree). Mathematical foundations of computer science; definition, application and implementation of abstract data types; algorithm design and analysis techniques. (G)

428: Object Oriented Programming and Data Structures. 0-3-3. Preq., consent of instructor. Programming paradigms, syntax, semantics, data types, expression, control statements, and subprograms; object oriented concepts, abstract data types, recursion, queues, and trees. (G)

429: Special Topics in Software Development. 0-3-3. Preq., consent of instructor. Selected topics in the area of software design that are of current importance or special interest.

430: Database Management Systems. 0-3-3. Preq., CSC 325. Database concepts, organizations and applications; database management systems; implementation of a simple database. (G)

436: Compiler Design. 0-3-3. Preq., CSC 310, 330. Principles of compiler design; assembler design; lexical analysis; syntax analysis; automatic parser generations; error detection and recovery. (G)

437: Programming Language Paradigms and Software Development. 0-4-4. Preq., CSC 425 and consent of instructor (cannot be applied for credit toward any Computer Science degree). Imperative, functional, logical and object-oriented paradigms; programming language semantics and language translation; specification, design, implementation, validation, and maintenance of large software systems. (G)

438: Advanced Data Structures and Algorithm Design. 0-3-3. Preq., consent of instructor. Algorithm analysis and design, sorting algorithms, hashing, search trees, disjoint sets, graph algorithms, divide and conquer, greedy algorithms, dynamic programming, backtracking, and NP completeness. (G)

439: Special Topics in Programming Environments. 0-3-3. Preq., consent of instructor. Selected topics in the area of programming environments that are of current importance or special interest.

445: Architecture and Operating Systems; Parallel Computing. 0-4-4. Preq., CSC 425 and consent of instructor (cannot be applied for credit toward any Computer Science degree). Digital logic, instruction set architectures, microprocessor design; storage management, process synchronization and communications, device management; introduction to parallel architectures, languages and algorithms. (G)

449: Special Topics in Operating Systems. 0-3-3. Preq., consent of instructor. Selected topics in the area of operating systems that are of current importance or special interest.

450: Computer Networks. 0-3-3. Preq., CSC 345. An overview of computer networks. Topics include network topologies, layers, local area networks, and performance measurement and analysis. (G)

464: Advanced Digital Design. 0-3-3. Preq., CSC 265. Synchronous sequential circuits, FSM optimization and implementation, testing, level-mode sequential design, race and hazards, advanced ALU, programmable logic devices, CAD tools and HDLs.

466: Microprocessor Systems Design. 0-3-3. Preq., CSC 364. Microprocessor-based system design, bus design, memory systems, input/output interfacing and DMA, microprocessor-based laboratory project.

468: Introduction to VLSI. 0-3-3. Preq., CSC 265. VLSI design methodologies, fabrication and layout, combinational and sequential design in VLSI, subcell design, system design, advanced design techniques.

469: Special Topics in Computer Architecture. 0-3-3. Preq., consent of instructor. Selected topics in the area of computer architecture that are of current importance or special interest.

470: Computer Graphics. 0-3-3. Preq., CSC 325. Fundamentals of two and three dimensional computer graphics. Topics include line drawing, polygon rendering, clipping algorithms, two and three dimensional transformations, and projection techniques. (G)

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520: Case Studies in Counseling. 1-3 hours credit. Preq., COUN 508 and consent of instructor. Preparation and use of case studies in counseling.

521: Seminar: Current Psychological Literature. 1-3 hours credit. May be repeated. Preq., COUN 508 and consent of instructor. Students are required to do extensive reading on selected topics in psychology.

522: Field Work in Counseling. 3 hours credit (6). Preq., COUN 518 and consent of instructor. Supervised study, observation, and practice in selected employment settings.

526: Problems in Guidance. 3 hours credit (6). Special conferences, workshops, and seminars as requested by elementary and secondary school personnel. May be repeated for a maximum of 6 hours credit.

527: Addiction Counseling. 0-3-3. An introduction to the field of Addiction Counseling. Emphasis is placed on recognition and identification of the addicted as well as basic treatment techniques.

528: Advanced Addiction Counseling. 3-2-3. Preq., COUN 527. A methods course intended to equip the student with a basic conception of various therapeutic modalities.

529: Cross-cultural Counseling. 0-3-3. Investigation of the development of cultural identity and techniques for appropriate interactions with clients from different cultural groups.

530: Practicum. 5-1-3. Open only by application. Supervised professional activity in the student's major field. (Minimum 3.0 GPA required)

531: Internship. 20-1-3 (6). Preq., COUN 530 or equivalent and permission of adviser. Advanced supervised counseling practice in a setting appropriate to the student's professional development.

532: School Counseling Practicum. 5-1-3. Open only by application. Supervised professional activity in a school setting. (Minimum 3.0 GPA is required)

585: Comprehensive Exam in School Counseling. No credit. Required for all students in the School Counseling concentration of the Counseling and Guidance master's program. Usually taken in the last term before graduation, but other arrangements may be made under extenuating circumstances.

586: Comprehensive Exam in General Counseling. No credit. Required for all students in General Counseling concentration of the Counseling and Guidance master's program. Usually taken in the last term before graduation, but other arrangements may be made under extenuating circumstances.

590: Ethics and Professional Practice. 0-3-3. Preq., COUN 508. An in-depth investigation of ethical and legal issues, as well as technical concerns, related to the professional practice of counseling.

ECONOMICS (ECON)

201: Economic Principles and Problems. 0-3-3 each. A study of basic economic principles and problems, with particular reference to the operation and social implications of the American economic system. (201-Macro). Statewide Transfer Agreement Course*

202: Economic Principles and Problems. 0-3-3 each. A study of basic economic principles and problems, with particular reference to the operation and social implications of the American economic system. (202-Micro). Statewide Transfer Agreement Course*

215: Fundamentals of Economics. 0-3-3. (Not open to students who have had ECON 201-202.) A survey of the major principles of economics designed for the student whose curriculum requires only one quarter of economic principles. Statewide Transfer Agreement Course*

312: Monetary Economics. 0-3-3. Preq., ECON 201 and 202 or ECON 215. A study of the causes of changes in the supply of money and rate of spending and the effects of these changes on production, employment and the price level.

344: International Economics. 0-3-3. Preq., ECON 201 or 215 or consent of instructor. Introduction to modes of business operations and the economic factors which affect international trade. Study of principles, practices, and theory of how and why nations trade. (IER)

401: Internship in Economics I. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

402: Internship in Economics II. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

403: Economics of Industrial Organization. 0-3-3. Preq., ECON 202 or 215. Relationships between structures, conduct and performance of industries using theoretical and empirical material: Antitrust and environmental regulation, R&D, product advertising and pricing are examined. (G)

406: Comparative Economic Systems. 0-3-3. Preq., ECON 202 or 215. A study of alternative economic systems such as capitalism, socialism, communism, and "mixed" in theory and practice.

408: Intermediate Economic Theory. 0-3-3. Preq., ECON 202 or 215, or consent of instructor. Fundamentals of economic theory: intensive study of price, production, and distribution theories. (G)

409: Managerial Economic Analysis. 0-3-3. Preq., senior standing or consent of instructor. Lectures and cases emphasizing economic principles as used in managerial decision-making. Includes analysis of demand, cost and price relationships, price decision, risk and uncertainty, and capital investment. (G)

418: Labor Economics. 0-3-3. Preq., ECON 202 or 215 or consent of the instructor. Fundamentals of labor market operations, economic analysis of labor legislation; impact of American unions upon the firm's decision making and the national economy. (G)

437: Aggregate Economic Analysis. 0-3-3. Preq., ECON 312. Macroeconomics: intensive study of economic theory of national income analysis, interest, employment, and fiscal policy. (G)

510: Managerial Economics. 0-3-3. Preq., QA 390. Analysis and cases; actual case studies in the application of price and distribution theory to problems of the firm.

512: Current Economic Policies. 0-3-3. An investigation of modern economic concepts in the United States through a study of policies advanced by various economic groups tending to shape economic action.

513: Macroeconomic Theory I. 0-3-3. Preq., ECON 437 or other acceptable background course(s). Analysis of monetary factors and government revenue-expenditure factors affecting the general level of prices, investment decisions, interest rates, national income and employment.

520: Advanced Microeconomic Theory. 0-3-3. Preq., ECON 408 or other acceptable course(s). Value and distribution theory emphasizing applications to business operations and public policy issues.

532: Econometric Methods. 0-3-3. Preq., QA 432 or other acceptable courses. The use of statistical techniques in economic research including estimation and interpretation of parameters of economic models.


541: Microeconomics: Business Conditions Analysis. 0-3-3. Preq., ECON 510. Detailed review of techniques, procedures, and data sources used by business economists to gather, analyze, interpret, and forecast microeconomic variables.

542: Seminar on Business Economics Problems. 0-3-3. Preq., QA 390 or equivalent or consent of instructor. Students will develop and present an analytical study in micro- or macroeconomics in a form expected of a business economist's presentation to corporate management.

550: Directed Study in Economics. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of the department head required. Special problem or specific area of economics.

613: Macroeconomic Theory I. 0-3-3. Preq., ECON 437 or other acceptable background course(s). Requires Doctoral standing. May require additional class meetings. Analysis of monetary factors and government revenue-expenditure factors affecting the general level of prices, investment decisions, interest rates, national income and employment. Credit will not be given for ECON 613 if credit is given for ECON 513.

620: Advanced Microeconomic Theory. 0-3-3. Preq., ECON 408 or other acceptable course(s). Requires Doctoral standing. May require additional class meetings. Value and distribution theory emphasizing applications to business operations and public policy issues. Credit will not be given for ECON 620 if credit is given for ECON 520.

632: Econometric Methods. 0-3-3. Preq., QA 432 or other acceptable courses. Requires Doctoral standing. May require additional class meetings. The use of statistical techniques in economic research including estimation and interpretation of parameters of economic models. Credit will not be given for ECON 632 if credit is given for ECON 532.

641: Microeconomics: Business Conditions Analysis. 0-3-3. Preq., ECON 510. Requires Doctoral standing. May require additional class meetings. Detailed review of techniques, procedures, and data sources used by business economists to gather, analyze, interpret and forecast microeconomic variables. Credit will not be given for ECON 641 if credit is given for ECON 541.

650: Directed Study in Economics. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of economics.

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.
685: Comprehensive Exam in Economics. No credit. (Pass/Fail). Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in economics. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in economics. Requires consent of graduate director.

EDUCATION (EDUC)

430: Internship in Teaching. 2-9 (9) hours credit. Preq., 12 hours of professional education. Supervised teaching experience in area(s) of certification in education. (Pass/Fail).

431: School Readiness. 1-3-3. Preq., PSYC 207 and Admission to a teaching program. Designed to acquaint the student with the appropriate theory, understanding, and methods necessary for beginning school success. Particular emphasis will be on holistic developmental readiness. (G)

460: Methods for Teaching and Testing in ESL. 0-3-3. Preq., Senior standing. Theories and techniques for teaching English as a Second Language and evaluating student performance; emphasis on communicative competence. Also listed as ESL 460.

462: Principles and Problems of Cooperative Education. 0-3-3. Preq., Admission to a teaching program. The basic principles and philosophies of cooperative educational practice. History and development of cooperative education. (G)

463: Materials and Methods of Teaching Art. 2-2-3. Preq., Admission to a teaching program. The planning of a course of art and the methods of presentation of such a course in the elementary and high schools. (G)

466: Materials and Methods of Teaching Instrumental Music. 0-3-3. Preq., EDUC 480. See EDUC 465 for description; emphasis on the instrumental aspects.

472: Individually Guided Education. 0-3-3. Presents the essential concepts, principles, and skills of several individualized instruction models and teacher roles as designers, managers, and evaluators of the teaching-learning process.

502: Problems in Teaching Language Arts in the Elementary School. 0-3-3. A study of the principles, research, methods and materials needed for teaching English as a written and spoken language. Emphasis on oral forms of communication in elementary and junior high schools.


520: Education for the Older Adult. 0-3-3. Designed as a study of the elderly as a unique group of learners, defining specific needs of the elderly.

530: Internship in Teaching. (Pass/Fail). Preq., by application only; requires approval of academic advisor and Director of Field and Clinical Experiences. Registration in any quarter is for 3 semester hours or multiples thereof, up to a maximum of 9 semester hours per quarter. Maximum credit applicable towards the degree is 9 semester hours. Supervised teaching experience in area(s) of certification in education.

540: Comparative Education. 0-3-3. A study of the educational systems in Europe, the Orient, and South America.

541: Introduction to Graduate Study and Research. 0-3-3. Experience is gained in the application of techniques of educational research, in writing in acceptable form, and in evaluating research. Required of all master’s candidates in education and should be scheduled during the first six hours of graduate work.

EDUCATIONAL COMPUTER TECHNOLOGY (ECT)

440: Technology for Teachers I. 0-3-3. This course is designed to introduce teachers to computer applications that support classroom instruction. Classroom management techniques and modeling effective teaching strategies will also be a part of the instructional process. (G)

441: Technology for Teachers II. 0-3-3. This course is designed to enhance teachers’ classroom instruction through technology integration. Classroom management techniques and modeling effective teaching strategies will also be a part of the instructional process. (G)

442: Curriculum Enhancement Through Technology. 0-3-3. This course is designed to enhance the instructional program within the K-12 classroom. Emphasis will be placed on how technology can be easily integrated into standards-based lessons. (G)

445: Introduction to Technology for Teachers. 4-1-3. This course is for preservice and inservice teachers who want to develop proficiency in using technology to support classroom learning. (G)

500: Technology Leadership to Support Standards-Based Teaching & Learning. 4-1-3. Preq., ECT 445 or equivalent. Exploration of ways to use technology to support standards-based teaching and learning in the classroom.

501: Educational Telecommunications, Networks, & the Internet. 4-1-3. Preq., ECT 500 or equivalent. Examination of methods and resources for integrating the Internet into content area learning.

502: Design & Development of Multimedia Instructional Units. 4-1-3. Preq., ECT 500 and 501. Design and development of multimedia products to facilitate student learning in the classroom.

510: Technology for Teaching Reading/Language Arts. 4-1-3. Preq., ECT 445 or equivalent. Exploration of a variety of technology to support reading/language arts instruction. Includes the design and development of multimedia products.

535: Effective Instructional Technology: An Introduction. 0-3-3. The student will be introduced to the microcomputer and a variety of software applications that may be useful for study, research, and educational preparation.

100: Early Experiences in Education. 0-1-1. Designed to give high school seniors an overview of the teaching profession from the perspectives of Teacher Education, Health and Physical Education, and Special Education.

102: Reading Skills for College Freshmen. 9-0-3 (9). The course provides individually prescribed instruction in reading skills for college freshmen. The course objective is to help alleviate reading deficiencies, which inhibit effective classroom teaching.

125: Introduction to Teaching. 1-1-1. An overview of the teaching profession from various perspectives supplemented with structured observations in elementary, middle, and secondary classrooms.

189: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Education. May be repeated for credit.

194: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Education. May be repeated for credit.

205: The Computer: A Tool for the Teacher. 0-1-1. Instructional, utility, and management software applications for school use. Development of instructional materials, incorporation of commercially available software into lesson and unit structure.

210: Instructional Technology. 3-0-3. This course is designed to introduce instructional technology for teaching and learning. Teacher candidates will develop proficiency in the integration and evaluation of electronic media.

245: Microcomputer Applications: Tools for Lifelong Learning. 0-3-3. Designed to introduce students to the microcomputer and a variety of software applications that may be useful for study, research, educational preparation.

289: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Education. May be repeated for credit.

294: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Education. May be repeated for credit.

300: Driver Education and Highway Safety. 0-3-3. Investigation of the problems facing drivers, traffic design problems, and the study of the philosophy of driver education.

320: Materials and Methods for Elementary Science and Social Studies. 0-3-3. Preq., PSYC 207. A course for the study of curriculum organization and teaching in elementary science and elementary social studies.

351: Materials and Methods in Teaching Modern Language. 0-3-3. Preq., 12 hours of modern languages and EDUC 480. The student will be introduced to the latest techniques of organizing materials and presenting them to high school pupils.

394: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Education. May be repeated for credit.

394: Special Topics. 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at [http://www.regents.state.la.us/](http://www.regents.state.la.us/) and the school you are transferring to for additional information.
400: Human Exceptionalities. 3-2-3. This course provides a survey (e.g., definitions, characteristics, identification, legislation, and education procedures) of students with exceptionalities (e.g., GT, MR, LD, EBD, VI, HI, PD). (G)

401: Directed Observation and Pre Student Teaching Experiences. 3 3/4-1-1. Preq., 90 semester hours including professional preparation courses taken in quarter prior to student teaching. Directed observation, participation, and critique related to the field in which the student plans to student teach.

402: Measurement in Education. 0-2-2. Includes principles of measurement and evaluation, construction of teacher-made tests, and utilization of standardized tests.

403: Materials and Methods of Teaching Reading. 0-3-3. Preq., EDUC 480. Instructional techniques designed to assist the secondary teacher in implementing reading strategies in content courses. (G)

404: Reading Strategies for Secondary School Teachers. 0-3-3. Instructional techniques designed to assist the secondary teacher in implementing reading strategies in content courses.

405: Materials and Methods in Teaching Agricultural Education. 0-3-3. Preq., AGED 460 or consent of instructor. Techniques, requirements, and organization of state curriculum guides and course requirements in agricultural education in public schools. Requirements of the FFA advisor/agriculture teacher. (G)

406: Education Innovations in the Current and Emerging Schools. 0-3-3. Study of educational innovations and their implications.

409: Materials and Methods in Teaching Business Education. 10-2-3. Preq., Admission to a teaching program, EDUC 424, and PSYC 207. Field-based experience in diagnosing reading problems and recommending appropriate instructional interventions for student children. (G)

410: Business and Office Procedures. 10-2-3. Preq., Admission to a teaching program. Methods and procedures in developing and coordinating a cooperative office education program in the secondary school. (G)

415: Multicultural Education. 0-3-3. Preq., Admission to a teaching program and PSYC 207. This course provides K-12 education students with the culturally inclusive awareness, skills, and knowledge to meet the diverse needs of learners. (G)

416: Student Teaching. 2-9 (9) hours credit. Preq., meet all qualifications identified in this catalog for teaching level or area of specialization. Student receives appropriate supervised teaching experiences. Total clock hours determined by program. Two hours of seminar. (Pass-Fail).

417: Diagnosis and Correction of Reading Difficulties. 11/4-2-3. Preq., Admission to a teaching program, EDUC 424, and PSYC 207. Field-based experience in diagnosing reading problems and recommending appropriate instructional interventions for school children. (G)

420: Practica in Education. 10-1-3. Preq., Consent of Director of Field and Clinical Experiences. Structured laboratory experiences in area(s) of specialization in education. May be repeated for credit. (Pass-Fail)

421: Materials and Methods for Early Childhood/Elementary Grade Mathematics. 0-3-3. Preq., PSYC 207 or EPSY 511. An exploration of content, methodologies, and assessments in the P-3 mathematics program. (G)

422: Materials and Methods for Elementary/Middle Mathematics. 0-3-3. Preq., Admission to a teaching program and PSYC 207. An examination of the characteristics and objectives of the modern elementary mathematics program combined with experiences in content, methods, and organizations. (G)

423: Materials and Methods for Elementary/Middle Language Arts. 0-3-3. Preq., Admission to a teaching program and PSYC 207, concurrent enrollment required with EDUC 424. A course to enable students to use current principles, research, methods and materials to teach oral, written and reading communication skills. (G)

424: Materials and Methods for Elementary/Middle Reading. 0-3-3. Preq., Admission to a teaching program, Reading Methods, and PSYC 207, concurrent enrollment required with EDUC 423. Principles, methods, and research pertaining to the teaching of reading will be emphasized. (G)

425: Materials and Methods for Elementary/Middle Science. 0-3-3. Preq., Admission to a teaching program and PSYC 207. A course for the study of curriculum, organization, and teaching of elementary/middle science. (G)

426: Materials and Methods for Elementary/Middle Social Studies. 0-3-3. Preq., Admission to a teaching program and PSYC 207. A course for the study of curriculum, organization, and teaching elementary/middle social studies. (G)

431: Literacy for Emergent Learners. 2-1-3. Preq., Admission to a teaching program. Designed to acquaint students with appropriate theory, understanding, and methods necessary for the emerging learner with emphasis on holistic aspects of effective instruction. (G)

432: Kindergarten Education. 3-3-3. Preq., PSYC 207 and Admission to a teaching program. Course will involve curriculum planning based on principles of child development. Students will become familiar with the curriculum development process by using curriculum documents including instructional units. (G)

433: Special Problems in School Curriculum. 1-4 hours credit. (9). Preq., consent of instructor. Course is designed to deal with selected problems in elementary and secondary schools.

434: Diverse Learners. 2-1-3. Preq., Admission to a teaching program. This course provides P-12 teaching candidates with the awareness, knowledge, skill, and disposition to identify, assess, teach, accommodate, and manage the instructional needs of diverse learners. (G)

435: Trends and Issues in Education. 2-1-3. Preq., Admission to a teaching program. This course will be a generic methods course which explores methods and procedures to assess and facilitate student academic growth. (G)

440: Behavior Management of Students with Mild/Moderate Disabilities. 3-2-3. This course is an advanced study of the biological, social, psychological, and behavioral factors associated with behavioral disorders. (G)

441: Methods of Teaching Kindergarten Children. 1-3-3 Preq., LSCI 201, EDUC 432, PSYC 408, and Admission to a teaching program. Practical problems in the selection and organization of the curriculum to promote children's learning. Emphasis on planning, selecting equipment, teaching techniques, and student academic growth. (G)

445: Keyboarding and Computer Applications in the Classroom. 10-2-3. Preq., Admission to a teaching program. A course designed to develop keyboarding skills, techniques, and computer applications for classroom instruction. (G)

447: Software Applications for Classroom Instruction. 10-2-3. Preq., EDCI 445 and Admission to a teaching program. A course designed to apply keyboarding skills, techniques, and technology integration to support classroom instruction. (G)

448: Instructional Software Design and Development. 10-2-3. Preq., EDCI 447 and Admission to a teaching program. A methods course designed for teaching multimedia and web-based instructional design and development. (G)

449: Administrative Applications of the Microcomputer in Schools. 0-3-3. A course to provide information in the administrative users of computers in schools, hardware/software/consultant resources, and methods for developing effective in-service programs. (G)

450: Improving Instruction of Art. 2-2-3. Preq., Admission to a teaching program. Problems of teaching art in elementary and junior high school with emphasis upon philosophy, art materials and techniques, evaluation and curriculum planning. (G)

451: Software Applications in the Teaching of Reading. 1-3 hours credit. (3). The microcomputer is used to prepare software for use in content reading applications and test construction. (G)


453: Foreign Language Teaching Methods. 0-3-3. Preq., 12 hours of a foreign language. Study of a broad range of foreign language teaching methods; examination of underlying theories and practical applications. Also listed as FLNG 453. (G)

454: English Grammar in ESL Teaching. 0-3-3. Preq., Senior standing. An analysis of English grammar specifically for developing instructional
455: Improving Instruction in the Middle Grades. 0-3-3. A study of the history, philosophy, and nature of the middle school with emphasis on early adolescent physical and educational development and social/emotional problems.

456: Materials and Methods in Teaching Mathematics. 0-3-3. Prq., EDUC 480 and MATH 241, Admission to a teaching program. The nature of mathematics and methods of teaching. Special emphasis will be placed on the interpretation and solving of reading problems. (G)

457: Materials and Methods in Teaching English. 0-3-3. Prq., EDUC 480, Admission to a teaching program. The student will be introduced to the best techniques of organizing and presenting English material. (G)

458: Materials and Methods in Speech, Language and Hearing in the Public Schools. 0-3-3. Practical problems in the identification, diagnosis, and treatment of communication disorders in school children, with emphasis on materials, organization of therapy program and teaching procedures. (G)

459: Pedagogy and Methods in Teaching Social Studies. 0-3-3. Prq., EDUC 480, Admission to a teaching program. An examination of the character and purpose of social studies is followed by presentation of appropriate teaching suggestions. (G)

460: Internship in Teaching. 35-0-1. Prq., Admission to a teaching program and permission of Director of Field and Clinical Experiences (Pass/Fail). Teacher candidates meet the student teaching requirement while employed in a teaching position. Supervision by the school principal and university supervisor required. (G)

461: Performance Based Seminar I. 0-2-2. Prq., concurrent enrollment in EDCI 460. Teacher candidates will meet weekly to address topics responding to observed needs of candidates. (G)

462: Performance Based Seminar II. 0-2-2. Prq., concurrent enrollment in EDCI 460. Teacher candidates will meet weekly to address topics responding to observed needs of candidates. (G)

463: Performance Based Seminar III. 0-2-2. Prq., concurrent enrollment in EDCI 460. Teacher candidates will meet weekly to address topics responding to observed needs of candidates. (G)

464: Materials and Methods in Teaching Science. 0-3-3. Prq., EDUC 480, Admission to a teaching program. A careful examination of the most advanced methods of organizing the presenting materials in sciences for the secondary school. (G)

465: Materials and Methods of Teaching Vocal Music. 0-3-3. Examines problems which confront the teacher and supervisor of vocal music; e.g., program building, contests, festivals, requisitions, grading, materials, scheduling, and rehearsing.

466: Adaptive Technology for the Visually Impaired. 1-1-1. Prq., Admission to a teaching program or consent of instructor. Through demonstrations, hands-on projects, and various guest lectures, student learners will use state-of-the-art technology designed for the blind and/or visually impaired learner. (G)

467: Materials and Methods in Teaching Speech. 0-3-3. Prq., EDUC 480, Admission to a teaching program. An examination of materials and methods for teaching speech in elementary and secondary schools. (G)

468: Curriculum Development and Design for ESL. 0-3-3. Prq., Senior standing. Selection of objectives, content, task implementation, and pedagogy for teachers of English as a Second Language. Also listed as ESL 470.

471: Classroom Management. 1-3-3. Course emphasizes the application of concepts, principles, and skills necessary for designing, implementing, evaluating, and revising plans for classroom management. (G)

472: Transition and Vocational Procedures. 2-1-3. Prq., Admission to a teaching program. Emphasizes transition and vocational models, curricula, strategies, and services. Field-based experiences focus on career exploration, planning, inter-agency collaboration, research, and family involvement. (G)

473: Educational Strategies and Methods for Students with Mild/Moderate Disabilities. 2-1-3. Prq., Admission to a teaching program. Procedures, methods, materials, and research-based strategies for students with disabilities (1-12) with emphasis on accommodations, modifications, and Individualized Education Programs (I.E.P.s). (G)

475: Foundations of Education. 0-2-2. An interdisciplinary survey of the development of educational institutions and practices with particular focus upon the influences of social, legal, historical and philosophical thought. (G)

477: Teaching Methods for Effective Instruction of Science and Social Studies. 2-1-3. Prq., Admission to a teaching program and PSYC 207. A course for the study of curriculum organization, instructional strategies and materials, and research findings related to PK-8 science and social studies. (G)

480: Principles of Teaching. 0-3-3. An investigation of the principles of teaching as related to the student, curriculum, and the teaching-learning process. (G)

481: Inclusion Models and Procedures. 6-1-3. A field-based exploration of inclusion models, pupil appraisal, and curriculum designs. (G)

482: Strategies and Procedures for Serving Young Children with Special Needs. 0-3-3. Prq., EDCI 400 or EDCI 504. Planning, procedures, strategies/assessments for young children with special needs and their families. (G)

483: Psycho-educational Assessment of Exceptional Students. 10-2-3. An examination of administration and interpretation of basic tests (standardized and criterion-referenced) to make appropriate assessment decisions regarding exceptional students. (G)

489: Special Topics. 1-4 hours credit (9). Selected topics in an identified area of study in the College of Education. May be repeated for credit. (G)

490: Introduction to Adult Education. 0-3-3. A study of the history, philosophy, objectives and nature of adult and continuing education; emphasis given to the adult as a learner. (G)

491: Reading in Adult Education. 0-3-3. Examines the characteristics of the functionally illiterate adult. (G)

492: Materials and Methods in Adult Education. 0-3-3. Examination of characteristics unique to the adult with emphasis on analysis of the methods and materials available for working with adults. (G)

493: Cross-Cultural Communication for ESL Teaching. 0-3-3. Prq., Senior standing. Concepts of culture and the relationship of language acquisition to the cultural setting with specific application to the teaching of ESL. Also listed as ESL 493.

494: Special Topics. 1-4 hours credit (9). Selected topics in an identified area of study in the College of Education. May be repeated for credit. (G)

495: Social and Psychological Aspects of Blindness. 1-2-3. Prq., Admission to a teaching program or consent of instructor. Course explores social and psychological implications of blindness and provides an overview of current and historical practices in the rehabilitation and education of blind individuals. (G)

499: Instructional Strategies and Materials for Teaching Blind Students. 0-3-3. Prq., Admission to a teaching program or consent of instructor. Methods and materials for teachers teaching blind children to read. Students will increase personal Braille reading speed, proficiency, and knowledge of the literary Braille code. (G)

500: Research Applications for Teachers and Educational Leaders. 0-3-3. Research techniques as they apply to effective school improvement, in locating and interpreting educational research, in writing in acceptable form, and in evaluating research. (G)

501: Problems in Teaching Elementary Science. 0-3-3. A survey of research bearing on problems of organizing, developing, and evaluating the curriculum in science.

502: Psychoeducational Assessment of Exceptional Students. 2-1-3. Assessment and interpretation procedures for administering and interpreting tests (standardized and criterion-referenced), and making appropriate assessment decisions regarding students with M/M disabilities.

503: Problems in Teaching Reading. 0-3-3. A study of problems in the teaching of reading in elementary schools. Special emphasis will be given to the development of a reading program, diagnosis, and care of individual needs of pupils, use of materials, research findings, and their applications to methods of instruction. (G)

504: Human Exceptionalities: Seminar. 1-2-3. Provides a survey (including legislation, definitions, characteristics, identification, and educational procedures) of student with various exceptionalities.

505: Curriculum Development and Assessment Planning for Teachers. 0-3-3. Application of curriculum and special education. (G)

506: Improving Instruction in English. 0-3-3. A study of the methods of teaching usage and literature, analyses of curricula, selection of materials, research in recent studies in the teaching of English. Special attention will be given to planning units of work, to creative teaching and to a consideration of the needs of youth in area of reading, writing, speaking, and listening.

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.
507: Improving Instruction in High School Mathematics. 0-3-3. The place of mathematics in general education and in specialized fields; professionalized subject matter; modern methods of teaching. Students will become familiar with teaching aids, long-unit assignments, and the construction and use of standardized and criterion-made tests.

508: Improving Instruction in Science. 0-3-3. A study of present-day trends in the teaching of science, content, organization of materials, methods of instruction, student activities, objectives, observation trips, use of textbooks, laboratory work and equipment, evaluation, preparation of unit and lesson plans, projects and student guidance.

509: Improving Instruction in the Social Studies. 0-3-3. A study of the selection and organization of subject matter in social studies, the planning of student activities, the use of instructional materials. Students will prepare unit and lesson plans utilizing community resources.

510: Teacher Leadership and Professional Practice I. 0-3-3. Students will be exposed to conceptual frameworks needed to become effective instructional as well as peer/teacher leaders and to make calculated decisions based on best practice and research-based findings.

511: Teacher Leadership and Professional Practice II. 0-3-3. Participants gain an in-depth knowledge of essential skills needed to become active teacher as well as educational leaders.

512: Philosophy of Education. 0-3-3. Designed to trace some of the more important educational problems as they have been affected by social and political facts of history, by contributions of leading educational theorists and by institutional practice.

513: Philosophy of Music Education. 0-3-3. A review of the historical development of music education in America and an analysis of trends in music education from 1930 to the present time.

514: The Learner in Adult Education. 0-3-3. The learner in adult education programs will be examined. Emphasis will be given to the teaching-learning process and the uniqueness of adult learning situations.

515: Administration and Supervision of Adult Education. 0-3-3. General administrative processes, emphasizing program planning and evaluation.

516: Seminar: Crucial Issues in Secondary Education. 0-3-3. Selected readings and research on current, crucial issues in secondary education. Topics will vary from quarter to quarter.

517: Action Research. 0-3-3. Development and application of professional reflection and action research as a means to a teacher enhancement, school change, and teacher empowerment.

518: History of American Education. 0-3-3. A survey of the development and growth of elementary, secondary, and higher education with emphasis upon American education.

519: Contemporary Issues in Adult Education. 0-3-3. Investigates current problems and future trends in the broad field of lifelong learning.

520: Practicum for Graduate Students. 4-0-3 (9). (Pass/Fail). Structured laboratory experiences in areas of specialization in education. May be repeated for credit up to 9 hours.

521: Assessment of Students and Programs. 0-3-3. Diagnosing and evaluating students and programs within the framework of instruction; emphasis on problem solving in order to improve learning and teaching.

522: Instructional Theory and Practice. 0-3-3. Exploration and investigation of methods and paradigms of instructional theory and delivery; emphasis on creative application of instructional technology and processes that create learning opportunities.

524: Supervision of Student Teaching. 0-3-3. Designed for experienced teachers who are interested in serving as supervising teachers in teacher-education programs.

525: Instructional Theory, Practice, and Assessment. 0-3-3. A study of effective teaching and assessment methods, strategies, and practices.

526: Curriculum Development. 0-3-3. Application of theory and research of curriculum; issues and trends in curriculum; strategies and techniques for planning curriculum; value and empirical bases for curriculum decisions.

528: Evaluating Pupil Growth. 0-3-3. Methods and procedures in test development, administration, validation, and interpretation.

529: Educational Planning and Accountability. 0-3-3. A survey of planning and accountability models in education while emphasizing the essential principles and skills necessary for designing, implementing, and evaluating education plans.

530: Professional Development. 0-3-3. The course is designed to help educational leaders understand the links between sustained, intellectually rigorous staff development and improved teaching and learning.

533: Problems in Education. 1-4 hours credit (9). Preq., Consent of the instructor. An advanced course dealing with special problems in the different fields of education.

534: Diagnosis and Evaluation of Reading Difficulties. 0-3-3. Preq., EDUC 542. Causes, diagnosis, evaluation and correction of reading disabilities.

537: Seminar, Problems in Reading. 0-3-3. Preq., consent of instructor. Recent issues, theories, studies and research findings in teaching reading.

539: Advanced Laboratory Practicum in Reading. 7-1-3. Supervised internship in reading.

540: Behavior Management of Students with Mild/Moderate Disabilities. 1-2-3. This course is an advanced study of the biological, social, and psychological factors in behavior disorders.

541: Research Seminar in Methodology & Teaching. 1-2-3. Designed to provide students opportunities to examine educational research on methodology and teaching, design a research study, and complete and present a research paper.

542: Statistical Methods in Education. 0-3-3. A study of the statistical methods used by school personnel in the study of educational problems.

543: Adjudication of Instrumental Ensembles. 0-2-2. This course examines in detail a philosophy of the phenomenon of adjudication. It includes practical aspects of evaluation.

545: The New Media in Education. 2-2-3. A study of the uses of new technology with some practical experience in the use of these educational aids.

546: Instructional Media Design and Development. 2-2-3. An investigation of the systems approach to instructional media design, organization, and application.

547: Early Intervention in Teaming, Physical/Medical Management for Young Children and Their Families. 0-3-3. Study and application of recommended, evidence-based practices in teaming with families to provide early intervention for young children with special needs including the interrelationships of education, medical, social, and physical disciplines.

548: Communication and Literacy for Young Children At-Risk. 0-3-3. Provides teacher-candidates with knowledge and skills in evidenced-based practices in communication development and literacy skills for young children at risk.

549: Foundations of Early Intervention. 0-3-3. This course focuses on the history, theories, research and application from the fields of both early childhood education and early intervention.

551: Research and Thesis. Three hours or multiples thereof. Maximum credit allowed is six hours.


562: Elementary School Curriculum. 0-3-3. A study of principles of curriculum construction in the elementary school. Emphasis is upon selection, organization and evaluation of materials suitable to the elementary school.


564: The Reading Process. 0-3-3. An analysis of the physiological, psychological, and neurological foundations of the reading process.

566: Improving Instruction in Remedial Education. 2-2-3. Focuses on improvement of college level instruction at the remedial/developmental level.

567: Teaching Methods for Language Arts. 0-3-3. Provides an in-depth study of the elements of lesson planning and design with emphasis in the teaching of written and oral communication (other than reading).

568: Teaching Methods for Effective Instruction of Reading. 0-3-3. An in-depth study of reading programs and materials, diagnosis and instruction for individual needs, evaluation of findings, and their applications to methods of instruction.

569: Teaching Methods for Effective Instruction of Mathematics and Educational Technology. 0-3-3. An in-depth study of mathematics curriculum, instructional methods and materials, and research findings with an investigation of technology usage in the content fields.

570: Field Problem and Internship. 0-3-3. Preq., approval of the Dept. Head, Computer Information Systems and Analysis. The provision of supervised professional activities in business education directed by the business education faculty. Selection of one major area of business education for intensive study in terms of methods, materials, research, and curricular problems.
571: Change Theory & Innovation in Education. 0-3-3. Preq., Graduate Standing. A study of change theory and how varying factors and circumstances influence the extent of success or failure of planned innovations in public education.

572: Educational Foundations and Public Policy. 0-3-3. An analysis of the links between educational policy and school history with particular emphasis on the historical, philosophical, social, and legal foundations of education.

573: School Principles and Curriculum. 0-3-3. An analysis of the curriculum and principles of learning with additional emphasis on multicultural education, "at-risk" students, and classroom management.

574: Teaching Methods for Effective Secondary School Instruction. 0-3-3. An examination of research, resources, and advanced techniques of teaching in secondary schools.

575: Practicum in Education. 10-1-3. (Pass-Fail) Preq., Consent of Director of Laboratory Experiences. Structured laboratory experiences in education.

576: Internship in Education. 2-9 (9) hours credit. (Pass/Fail). Advanced internship in area(s) of specialization. Minimum of 180 clock hours in direct teaching. May be repeated for up to 9 hours credit.

577: Teaching Methods for Effective Instruction of Science and Social Studies. 2-1-3. A course for the study of curriculum organization, instructional strategies and material, and research findings related to PK-8 science and social studies.

578: Braille II. 1-1-2. Braille II introduces Nemeth (math), music, and computer Braille codes while increasing students' speed and accuracy in reading, transcribing, and proofreading Braille materials.

579: Developmental Aspects of Blindness. 1-3-3. This course emphasizes knowledge of physical, social, and emotional development of blind children including acquisition of motor, language, and cognitive skills, birth through adulthood.

580: Specialist Research and Thesis. Three hours credit or multiples thereof. Master's level credit allowed is six hours.

581: Visually Impaired Child in the PK-12 Classroom. 0-3-3. An overview course addressing the foundations of the education of visually impaired children. Educators will learn efficient practices relating to the inclusion of visually impaired children in public schools as well as the history and future trends of the field.


584: Orientation and Mobility for Teachers of Blind Students. 2-1-3. Teaches basics of efficient, independent, non-visual travel; movement for young blind children; multi-handicapped blind children and contemporary philosophical issues.

585: Comprehensive Examination in Education. No credit. (Pass/Fail). Graduate standing required. Required for all graduating graduate students enrolled in the MED, MAT, and EdS programs of study in Teacher Education. Requires consent of the College of Education Graduate Director. May be repeated once.

589: Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Education.

590: American Society and Diversity: Issues for Educators. 0-3-3. An overview and critical analysis of the philosophical, historical, and contemporary issues of diversity in American society and their impacts upon education.


592: National Board for Professional Teaching Standards Trends and Issues II. 0-3-3. (Pass/Fail). Preq., EDCI 591. This course is designed to assist all teachers (PK-12) with preparation for certification as a National Board Certified Teacher.

594: Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Education.

595: SACS CASI Accreditation/School Improvement Process I. 0-3-3. Participants will gain understanding of the SACS CASI Accreditation Standards for Quality Schools and will learn techniques to organize and interpret data, lead school improvement initiatives, and serve as SACS CASI steering committee members.

596: SACS CASI District Accreditation Protocol. 0-3-3. Provides school and district administrators with an in-depth understanding of the SACS CASI school district accreditation process. Participants learn techniques to build a shared vision, develop school and district profiles, design action plans, and interpret the success of both school and district initiatives to further student learning.

597: S.T.A.R. Evaluation and Assessment Protocol. 0-3-3. Designed for experienced teachers who are interested in serving being subject-matter qualified, research-based proficient, technology integrators, and advanced communicators in order to supervise, mentor, and lead teacher candidates in teacher-education programs.

599: Comprehensive Examination in Education. No credit. (Pass/Fail). Graduate standing required. Required for all graduating graduate students enrolled in the MED, MAT, and EdS programs of study in Teacher Education. Requires consent of the College of Education Graduate Director. May be repeated once.

600: Research Applications for Educational Leaders. 0-3-3. Research knowledge and skills in collecting, analyzing, interpreting and using data to lead school improvement and designing action research.

501: Curriculum Development and Assessment Planning for Educational Leaders. 0-3-3. Application of curriculum research and theory to inform practice; curriculum issues and trends, strategies and techniques for aligning curriculum to state and national standards.

510: Teacher Leadership & Professional Practice I. 0-3-3. Students will be exposed to conceptual frameworks needed to become effective instructional as well as peer/teacher leaders and to make calculated decisions based on best practice and research-based findings to positively impact teaching and learning at the local school site.

511: Teacher Leadership and Professional Practice II. 0-3-3. Foundations laid in the Teacher Leadership and Professionalism course will be enhanced with an emphasis on technology skills to serve the classroom leader in making the best research-based decisions to effect positive teaching and learning at the local school site.

520: Practicum in Administration and Supervision. 0-3-3. Structured field-based experiences in educational administration and supervision.

527: Public School Organization and Administration. 0-3-3. Introduction to national, state, and local administration; public school finance; principles and practices of administration; administration of special services; national and state legal aspects of public school administration, and administration of school-community relations.

530: Professional Development. 0-3-3. Designed to help educational leaders understand the links between sustained, intellectually rigorous staff development and improved teaching and learning.

531: Supervision of Instruction for School Improvement. 0-3-3. A study of instructional leadership processes, functions, and tasks for effective teaching with particular emphasis on acquisition and assessment of numacy and literacy skills.

540: Organizational Behavior and Innovation Leadership. 0-3-3. A study of the various elements of organizational behavior in education environments and how they function to mediate planned change and school improvement.

541: Effective Leadership Management. 0-3-3. Duties and responsibilities in finance, business management, organization, leadership, administration and supervision of personnel in elementary/secondary schools.


551: Facilitating School and Community Partnership in Diverse Settings. 0-3-3. This course is designed to familiarize educational administration candidates with the elements of efficient and collaborative school-community relations programs and campaigns for schools and school districts serving diverse educational settings.

552: Supervision of Instruction in Elementary and Secondary Schools. 0-3-3. A course designed to aid prospective elementary and secondary administrators in theories, principles, and concepts of supervision.

553: E-Leadership for School Technology Integration. 0-3-3. Preq., ECT 445 or equivalent skills. This course is designed to enable aspiring education administrators to plan, manage, lead, and sustain effective technology implementation in schools.

555: School and Community Relations. 0-3-3. Principles of school relations applied to education and the development of school and community understandings.

556: School Law. 0-3-3. State and national aspects and implications of public school law. Special attention is given to cases in both state and federal courts.

557: Elementary School Principalship. 0-3-3. Duties and responsibilities in organization, leadership, administration and supervision in the elementary school.

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EDUCATION LEADERSHIP (EDLE)

**500: Research Applications for Educational Leaders.** 0-3-3. Research knowledge and skills in collecting, analyzing, interpreting and using data to lead school improvement and designing action research.

**501: Curriculum Development and Assessment Planning for Educational Leaders.** 0-3-3. Application of curriculum research and theory to inform practice; curriculum issues and trends, strategies and techniques for aligning curriculum to state and national standards.

**510: Teacher Leadership & Professional Practice I.** 0-3-3. Students will be exposed to conceptual frameworks needed to become effective instructional as well as peer/teacher leaders and to make calculated decisions based on best practice and research-based findings to positively impact teaching and learning at the local school site.

**511: Teacher Leadership and Professional Practice II.** 0-3-3. Foundations laid in the Teacher Leadership and Professionalism course will be enhanced with an emphasis on technology skills to serve the classroom leader in making the best research-based decisions to effect positive teaching and learning at the local school site.

**520: Practicum in Administration and Supervision.** 40-0-3. (Pass/Fail). Structured field-based experiences in educational administration and supervision.

**527: Public School Organization and Administration.** 0-3-3. Introduction to national, state, and local administration; public school finance; principles and practices of administration; administration of special services; national and state legal aspects of public school administration, and administration of school-community relations.

**530: Professional Development.** 0-3-3. Designed to help educational leaders understand the links between sustained, intellectually rigorous staff development and improved teaching and learning.

**531: Supervision of Instruction for School Improvement.** 0-3-3. A study of instructional leadership processes, functions, and tasks for effective teaching with particular emphasis on acquisition and assessment of numeracy and literacy skills.

**540: Organizational Behavior and Innovation Leadership.** 0-3-3. A study of the various elements of organizational behavior in education environments and how they function to mediate planned change and school improvement.

**541: Effective Leadership Management.** 0-3-3. Duties and responsibilities in finance, business management, organization, leadership, administration and supervision of personnel in elementary/secondary schools.


**551: Facilitating School and Community Partnership in Diverse Settings.** 0-3-3. This course is designed to familiarize educational administration candidates with the elements of efficient and collaborative school-community relations programs and campaigns for schools and school districts serving diverse educational settings.

**552: Supervision of Instruction in Elementary and Secondary Schools.** 0-3-3. A course designed to aid prospective elementary and secondary administrators in theories, principles, and concepts of supervision.

**553: E-Leadership for School Technology Integration.** 0-3-3. Preq., ECT 445 or equivalent skills. This course is designed to enable aspiring education administrators to plan, manage, lead, and sustain effective technology implementation in schools.

**555: School and Community Relations.** 0-3-3. Principles of school relations applied to education and the development of school and community understandings.

**556: School Law.** 0-3-3. State and national aspects and implications of public school law. Special attention is given to cases in both state and federal courts.

**557: Elementary School Principalship.** 0-3-3. Duties and responsibilities in organization, leadership, administration and supervision in the elementary school.

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558: Secondary School Principalship. 0-3-3. Duties and responsibilities in organization, leadership and administration of the secondary school.
560: School Personnel Administration. 0-3-3. A course to equip the new principal to administrate all school personnel.
561: School Law, Policy, and Ethics for Educational Leaders. 0-3-3. State and national aspects of school law as well as implications of legal issues, policy, and ethics for educational leaders.
562: Internship in Educational Leadership I. 5-0-1. Structured field-based experiences in educational leadership and supervision. By application only.
563: Internship in Educational Leadership II. 5-0-1. Structured field-based experiences in educational leadership and supervision. By application only.
564: Internship in Educational Leadership III. 5-0-1. Structured field-based experiences in educational leadership and supervision. By application only.
565: Differentiated Supervision. 0-3-3. Focuses on improvement of classroom instruction through the building of the relationship between supervision and teaching.
585: Comprehensive Examination in Educational Leadership. No credit. (Pass/Fail). Graduate standing required. Required for all graduating graduate students enrolled in the MEd or MS programs of study in Educational Leadership. Requires consent of the College of Education Graduate Director. May be repeated once.
593: Leading with Technology for Administrators. 0-3-3. This course is designed to support school administrators in understanding and utilizing technology to impact overall instructional leadership and school improvement.

EDUCATIONAL PSYCHOLOGY (EPSY)
480: Introduction to Orientation and Mobility. 0-3-3. Provides an examination and application of the fundamental principles and theories of orientation & mobility. Students will progress through a graduated travel curriculum. (G)
502: Psychosocial and Educational Appraisal of Exceptional Students. 7-1-3. Preq., approval of instructor. Administration and interpretation of specialized individual tests, infant development scales, non-verbal tests for linguistically impaired, verbal tests for sensory handicaps, and accelerated academic assessment.
581: Blindness Rehabilitation Systems and Issues. 0-3-3. Presents an overview of rehabilitation history, concepts, programs and services; professional responsibilities and ethics with field experience utilizing techniques for working with rehabilitation agencies, school systems, organizations and public or private programs serving blind and visually impaired individuals.
583: Advanced Orientation & Mobility. 0-3-3. Provides instruction for teaching techniques of independent mobility to individuals who are blind and visually impaired. Curriculum includes strategies and techniques for rural environments, special travel situations, and use of public transportation and applications to daily living vocational environments. Special techniques used by O&M instructors who are blind/visually impaired are emphasized.
584: Internship in Orientation & Mobility. 18-0-6. (Pass/Fail). Preq., EPSY 583, by application only. Intensive experience in teaching Orientation and Mobility skills to visually impaired students. Field experience at a pre-approved site.
599: Master's Thesis. 0-3-3. (6 hours minimum). (Pass/Fail). Original research conducted under the supervision of a departmental faculty member in the student's program area. Student must be enrolled whenever university facilities or faculty are used.

ELECTRICAL ENGINEERING TECHNOLOGY (ELET)
100: Introduction to Electrical Engineering Technology, 3-0-1. A survey of topics to introduce the student to the profession, the department and the curriculum.
171: Basic Circuit Lab. 3-0-1. Concurrent registration in ELET 170. Laboratory companion to ELET 170.
180: AC Circuits. 0-3-3. Preq., ELET 170, Coreq., MATH 112. Concurrent registration in ELET 181. An extension of the concepts developed in ELET 170, to include alternating current circuits for sinusoidal steady-state analysis.
181: AC Circuits Laboratory. 3-0-1. Concurrent registration in ELET 180. Laboratory companion to ELET 180.
198: Instrumentation. 0-2-2. Preq., ELET 180 or 196, and some experience with instrumentation circuits. Mathematical principles which instrumentation.
261: Electronics Laboratory. 3-0-1. Preq., Concurrent registration in ELET 260. Introductory electronics laboratory, a companion to ELET 260.
271: Instrumentation Laboratory. 3-0-1. Preq., Concurrent registration in ELET 270. Laboratory for the study of electrical and electronic controlled instrumentation.
273: Electronics Applications Laboratory. 3-0-1. Concurrent registration in ELET 272. Training in the construction and troubleshooting of solid state electronics circuits.
285: Computers Laboratory. 3-0-1. Preq., Concurrent registration in ELET 284. Practical laboratory exercises in computer circuitry and maintenance techniques.
361: Electrical Power Laboratory. 3-0-1. Concurrent registration in ELET 360. Companion laboratory to 360.
371: Integrated Circuits Laboratory. 3-0-1. Concurrent registration in ELET 370. Practical laboratory work in the utilization of integrated circuits in active networks, both linear and discrete.
390: Electrical Drafting. 0-3-3. A course in mechanical drafting with emphasis on schematic diagrams, wiring diagrams, circuit boards, and electrical standards and codes.
460: Communication Circuits. 0-3-3 Preq., ELEN 232 or ELET 370. The study of systems used in communicating data. LANs and WANs.
461: Communication Circuits Laboratory. 3-0-1. Preq., Concurrent registration in ELET 460. Installation and administration of a LAN.
465: Circuit Design and Fabrication. 3-1-2. Preq., ELET 370 and ELET 390. A student project course in design, layout and fabrication of printed circuits.
469: Electronic Motor Control Laboratory. 3-0-1. Concurrent registration in ELET 468. Companion laboratory to ELET 468.

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471: Control Systems Laboratory. 3-0-1. Concurrent registration in ELET 470. Field trips and laboratory experiments in principles of automatic control systems.

472: Seminar. 0-0-1. Preq., senior standing. Discussion of employment, current job market, preparation of personal data sheets, application forms, other placement activities.

490: Special Problems. 1-4-9 hours credit. Preq., consent of instructor. A course to be arranged for the purpose of covering a selected topic of current importance or special interest.

ELECTRICAL ENGINEERING (ELEN)


243: Computer Programming. 0-1-1. The logic of computer solutions to problems. Basic programming utilizing a higher level programming language. Applications of computer usage in Electrical Engineering. Also listed as ELET 274.


406: Electrical Engineering Design I. 3-1-2. Preq., ELEN 311, 321, 334, 335, 381 and senior standing. Design problems requiring the integration of circuits, electronics, field theory, controls, energy conversion, power systems, and economics.


408: Electrical Engineering Design III. 3-0-1. Preq., ELEN 407. A laboratory for the continuing development and implementation of the senior design project started in ELEN 406 and continued in ELEN 407.


437: Microfabrication Principles. 0-3-3. Preq., MATH 245 and PHYS 202. Fundamentals of microfabrication processes necessary for the realization of ULSI and other technologies. (G)

438: Microelectronic Applications & Device Fabrication. 3-2-3. Preq., ELEN 437. Microfabrication process integration and applications to the realization of ULSI and other technologies. (G)

450: Selected Topics. 0-2-2. Preq., permission of instructor. Work in an area of recent progress in electrical engineering of immediate interest or need. Topic selected will vary from term to term.


469: Communications Laboratory. 3-0-1. Coreq., ELEN 461. Communications laboratory to accompany ELEN 461. Fourier Spectrum, AM systems, FM systems, and Time Division Multiplex.


479: Automatic Control Systems Laboratory. 3-0-1. Credit or registration in ELEN 471. Laboratory design, simulation and testing of automatic control systems. (G)

481: Power Systems. 0-3-3. Preq., ELEN 381. Per-unit notation. The design and analysis of balanced power systems including load flow, economic dispatch, short circuit and over current device coordination and control of watts and vars. (G)


483: Motor Control. 0-3-3. Preq., ELEN 381. Speed control. Reduced voltage starting techniques. Classical relay ladder logic. Modern programmable logic control device applications. Power electronic applications. (G)

489: Electrical Energy Conversion Laboratory. 3-0-1. Preq., ELEN 381; Coreq., registration in ELEN 481. Laboratory design and testing of basic electromechanical devices and machines.


533: Optoelectronics. 0-3-3. Preq., Permission of instructor. Modulation of light, display devices, lasers, photodetectors, optical transistors, logic gates, Waveguides, transmitter and receiver design.

535: Advanced Topics in Microelectronics. 0-3-6. Preq., consent of instructor. May be repeated with change in subject matter. Selected topics of current research interest in the field of microelectronics.

537: Advanced Microfabrication with Computer-Aided Design. 0-3-3. Preq., ELEN 438. Advanced microfabrication process development and integration with the aid of computer process modeling and simulation.

538: Advanced Microelectronic Devices with Computer-Aided Design. 0-3-3. Preq., ELEN 537. Planner, operation, and analysis of advanced microelectronic devices with the aid of computer device modeling and simulation.

550: Special Problems. 1-4 semester hours. Preq., Consent of Instructor. Advanced problems in electrical engineering. The problems and projects will be treated by current methods used in professional practice.

551: Research and Thesis in Electrical Engineering. (Pass/Fail). Preq., 12 semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.

555: Practicum. 0-3-3 (6). (Pass/Fail). Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of an engineering problem; technical literature survey required; development of engineering research techniques.

557: Special Topics: Electrical Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of electrical engineering. May be repeated as topics change.


582: Motor Control and Power Electronics. 0-3-3. Preq., ELEN 381. Electronic and electromagnetic motor control devices; programmable controllers; motor protection; solid state power device application to DC and AC power conversion.

**ENGINEERING (ENGR)**

120: Engineering Problem Solving I. 3-1-2. Coreq., MATH 240, CHEM 100. The engineering profession, engineering problem solving, computer applications.

121: Engineering Problem Solving II. 3-1-2. Preq., ENGR 120; Coreq., MATH 241, CHEM 101. Introduction to engineering design, engineering problem solving, computer applications.


189: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.

194: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.


221: Electrical Engineering and Circuits I. 3-2-3. Preq., MATH 243, and credit or registration in MATH 244. Fundamental concepts, units and laws. Network theorems, network simplification, phasors and AC solution of circuits, power and electronic applications.


289: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.

294: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.

299: Cooperative Education Applications. 40-0-1 (7). Preq., Admission to the College of Engineering and Science Cooperative Education Program.


389: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.

394: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.

399: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.

400: Freshman Composition I. 1-3-4. Preq., English ACT score of 18 or Verbal SAT score of 450 or English 099. Standard course for first-year college students; the three stages of writing (prewriting, writing, and rewriting); writing essays in various modes; grammar review. Includes 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.

494: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.

501: Engineering Research Methods. 0-3-3. An overview of the general methods used in engineering research, design of experiments, data analysis, proper record keeping, communication of research findings, and ethical issues.

530: Engineering Experimentation and Research. 4-2-3. Preq., Working knowledge of statistics. The purpose of this course is to prepare graduate students to conduct experimental research. This interdisciplinary course introduces students to the topics needed in order to design experiments and measurements successfully.

541: Mathematical Methods for Engineering. 0-3-3. Advanced mathematical methods commonly used in various branches of engineering, such as complex analysis, linear algebra, differential equations, Fourier series, and variational methods.

566: Quality in Engineering. 0-3-3. Preq., STAT 405. Principles of quality as applied to engineering processes. Applications to the engineering workplace and industrial/academic research will be emphasized.

589: Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Engineering and Science.

590: Application of Artificial Intelligence Techniques. 3-2-3. Preq., Permission of instructor. Introduction to artificial intelligence agents and technologies and their applications in industrial, mechanical, and manufacturing engineering systems.


594: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science.

610: Doctoral Seminar in Engineering. 0-3-3 (3). (Pass/Fail). Required for PhD Engineering students each Fall. The seminar will cover research methodology, issues in graduate education, and presentations on current research by faculty, doctoral students, and distinguished visitors. Only 3 semester hours will apply toward the candidates plan of study.

622: The Academic Enterprise. 0-1-1 (2). Topics include college teaching, proposal preparation and research, scholarly activities, service, record keeping, and maintaining balance between professional and personal life. May be repeated for credit.

631: Global Competitiveness and Management of Technology. 0-3-3. Preq., Consent of instructor. Principles of technology development and management in a global context, and their applications in the planning and implementation of new technological capabilities.

641: Formulation of Solutions to Engineering Problems. 0-3-3. Preq., Consent of instructor. Developing heuristics to formulate solutions to physical engineering problems, mathematical representation of physical laws, boundary value problems, variational methods, common mathematical approaches to solutions, approximate solutions, validity of solutions.

651: Research and Dissertation. (Pass/Fail). Doctoral students only. Registration in any quarter is for 3 semester hours or multiples thereof, up to a maximum of 9 semester hours per quarter. Maximum credit applicable towards the degree is 30 semester hours.

685: Doctoral Qualifying Examination. (Pass/Fail). No credit. Required for all students seeking to take the qualifying examination for the PhD in Engineering. Successful completion is a prerequisite for admission to candidacy.

686: Oral Comprehensive Examination. (Pass/Fail). No credit. Required for all students seeking to take the oral comprehensive examination for the PhD in Engineering. Successful completion is a prerequisite for election to candidacy.

**ENGLISH (ENGL)**

099: Preparation for College English. 0-3-3. Required if English ACT score is 17 or below, or Verbal SAT score is less than 440. Grammar, punctuation, spelling, and vocabulary, with the development of writing skills. Special emphasis on the sentence and paragraph. (Pass/Fail)

100: Freshman Composition I. 1-3-4. Preq., English ACT score of 18 or Verbal SAT score of 450 or English 099. Standard course for first-year college students; the three stages of writing (prewriting, writing, and rewriting); writing essays in various modes; grammar review. Includes 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.
410: History and Philosophy of Rhetoric. 0-3-3. Survey of the development of rhetoric from Ancient Greece and Rome to current theories and practice. (G)

412: The English Language. 0-3-3. Primarily a course in the history of the language. (G)

424: Southern Literature. 0-3-3. Study of the works of writers who have interpreted the American South, with emphasis on the authors of the Southern Renaissance. (G)

425: Russian Literature in English Translation. 0-3-3 (6). Representative works of Russian literature from the 19th and 20th centuries; repeatable for credit with different course content. May not be counted towards a minor in Russian. Also listed as RUSS 425. (G) (IER)

426: Spanish Literature in English Translation. 0-3-3 (6). Representative works of Spanish literature from the Middle Ages to the 20th century; repeatable for credit with different course content. May not be counted towards a major or minor in Spanish. Also listed as SPAN 426. (G) (IER)

427: Latin American Literature in English Translation. 0-3-3 (6). Representative works of 20th-century Latin American literature; repeatable for credit with different course content. May not be counted towards a major or minor in Spanish. Also listed as SPAN 427. (G) (IER)

428: French Literature in English Translation. 0-3-3 (6). Representative works of French literature from the Middle Ages to the 20th century; repeatable for credit with different course content. May not be counted towards a major or minor in French. Also listed as FREN 428. (G) (IER)

429: American Fiction of the Twentieth Century. 0-3-3. Study of the "American Century" as reflected in representative novels and short stories. (G)

430: African American Literature. 0-3-3. Study of the development of African American writing, with emphasis on the period from the Harlem Renaissance to the present. (G)

438: Sixteenth Century English Literature (excluding Shakespeare). 0-3-3. (G)

439: Seventeenth Century English Literature (excluding Milton). 0-3-3. (G)

440: Eighteenth Century English Literature. 0-3-3. (G)

450: Capstone Course. 0-1-1. Preq., Senior Standing. Issues important to English majors, including job opportunities, graduate school requirements, and marketing oral and written communication skills. (Pass/Fail)

452: The Literature of the Bible. 0-3-3. A survey of literary genres of the Old and New Testaments, focusing on the poetic and/or narrative art of each. (G)

455: Modern British Literature. 0-3-3. Preq., ENGL 201 or 202. Study of the poetry, plays, and fiction from the early 20th century to World War II. (G)

456: Contemporary British Literature. 0-3-3. Preq., ENGL 201 or 202. Study of the poetry, plays, and fiction from World War II to the present. (G) (IER)

459: Technical Writing and the Scientific Method. 0-3-3. Preq., ENGL 303. Study of scientific thought, methodologies, and rhetorical strategies; application to style and structure in technical discourse. (G)

460: Advanced Technical Writing. 0-3-3. Preq., ENGL 303. Emphasis on longer reports and specialized forms of technical writing, such as manuals. (G)

461: Technical Writing for Publication. 0-3-3. Preq., ENGL 303. Writing articles for scientific and technical journals, with emphasis on audience analysis and appropriate style.

462: Technical Editing. 0-3-3. Preq., ENGL 303. The work of an editor, including editing a text, planning projects, and working with authors, illustrators, and production workers.

463: Scientific and Technical Presentations. 0-3-3. Preq., ENGL 303. Presenting technical information to specialized and non-technical audiences; emphasis on organization, support, and clarity of presentation; effective use of visual materials. (G)

464: Occupational Technical Writing. 0-3-3. Preq., ENGL 303. Preparing the technical writer to plan and conduct training sessions within the organization and to supervise others engaged in writing tasks.

465: Specification, Bid, Grant, and Proposal Writing. 0-3-3. Preq., ENGL 303. Writing specifications, bids, grants, and proposals; emphasis on audience analysis, organization, and writing style.

466: Technical Writing Internship. 0-9-0-3 (6). Preq., permission of Department Head. On-the-job experience for the technical writing student; intended to give supervised practice under realistic working conditions. Internships are to be arranged individually. (G)

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467: Special Problems in Technical Communication. 3 hours credit (6). Preq., Permission of Department Head. The selection, study and writing of special problems. Students will work on individual projects under direct supervision. (G)

468: Readings in Scientific and Technical Communications. 0-3-3. Preq., ENGL 303. Study of the current material written about technical communication, with a reading and critical analysis of various technological journals.

469: Graphics in Technical Writing. 0-3-3. Preq., ENGL 201 or 202. Systematic study of language acquisition, change, and variation; application to teaching grammar, writing, and/or literature. Also listed as FLNG 470. (G)

475: Special Topcs. 0-3-3 (6). Seminar with topic to be designated by the instructor. May be repeated once with different topic. (G)

480: Science Fiction. 0-3-3. Study of science fiction within the context of modern literature, including short stories, novels, and films. (G)

482: Folklore Studies. 0-3-3. Study of folklore theory and genres in culture and literature with topics ranging from verbal arts to ritual and belief. (G)

484: Advanced Creative Writing. 0-3-3. Preq., ENGL 384 or instructor's permission. Workshop format includes intensive criticism of student writing in short fiction and/or poetry with emphasis on submission for publication. (G)

491: Advanced Expository Writing. 0-3-3. Writing essays and reports for professional publication; focus on style, format, and editing manuscripts. (G)

500: Teaching College Composition. 0-3-3. Preparation for teaching Developmental English and Freshman English; includes theory, research, technology, and pedagogy related to college composition.

515: Shakespeare Seminar. 0-3-3 (6). Preq., ENGL 415 or its equivalent. Study of Shakespeare texts and background writings of the Elizabethan and Jacobean Periods; repeatable once for credit with different instructor and/or course content.

520: Seminar in Composition. 0-3-3 (6). Selected reading and research topics in composition studies; repeatable for credit with different instructor and/or course content.

560: Seminar in Technical Writing. 0-3-3 (6). Preq., ENGL 303 or equivalent. Selected reading and research topics in technical writing theory and practice; repeatable once for credit with different instructor and/or course content.

561: Seminar in Technical Writing for Publication. 0-3-3. Preq., ENGL 303. Write articles and annotated bibliographies for scientific and technical journals, with emphasis on audience analysis and appropriate style. Design and edit online publication.

562: Seminar in Technical Editing. 0-3-3. Preq., ENGL 303. The work of an editor, including editing traditional and electronic texts; planning projects; managing multiple editors; and working with authors, illustrators, and production workers.

564: Seminar in Occupational Technical Writing. 0-3-3. Preq., ENGL 303. Preparing the technical writer to understand the theory and practice of creating effective training sessions, with an emphasis on audience, task, and need analyses.


568: Seminar in Readings in Scientific and Technical Communication. 0-3-3. Preq., ENGL 303. Study of historical and current technical communication literature through the lens of gender, technology, and research methodologies.


575: Special Topics. 0-3-3 (6). Graduate seminar with topic to be designated by instructor.

583: Seminar in British Literature. 0-3-3 (6). Reading and research topics in British Literature; repeatable once for credit with different instructor and/or course content.

584: Seminar in American Literature. 0-3-3 (6). Reading and research topics in American Literature; repeatable once for credit with different instructor and/or course content.

585: English Teachers' Workshop. 0-3-3. A course designed primarily for school teachers of English.

591: Literary Research and Bibliography. 0-3-3. Focuses upon methodology of scholarship, stressing various kinds of literary problems and approaches to their solutions; emphasis on descriptive and analytical bibliography.

**ENTREPRENEURSHIP (ENTR)**


410: Entrepreneurship for High Tech Start-Ups. 0-3-3. Preq., junior standing. Overview of the major business elements and the management of high technology enterprises.

430: Innovative Product Design. 6-1-3. Preq., junior standing and consent of instructor. An interdisciplinary, team-oriented, problem-solving approach to innovative product design and prototype development, including analysis of marketing and commercialization strategies.


489: Special Topics. 1-4 hours credit. Selected topics in the interdisciplinary area of entrepreneurship. May be repeated for credit.

560: Innovative Venture Research. 6-2-3. Preq., consent of instructor. Implementation of strategic business principles and cross-disciplinary research to evaluate the commercial potential of research programs and commercialization strategies for university-based intellectual property.

**ENVIRONMENTAL SCIENCE (ENSC)**

211: Introduction to Environmental Sciences. 0-3-3. Basic laws, principles, and issues related to causes, effects, and controls of environmental problems including human-environment interactions. Credit will not be given for ENSC 211 if credit is given for BISC 211.

212: Conservation and Management of Natural Resources. 0-3-3. Introduction to the management of renewable resources including the use, conservation, and sustainability of these resources. Credit will not be given for ENSC 412 if credit is given for BISC 212.

246: Instrumentation. 4-2-3. Preq., 8 semester hours of biological or chemical sciences. Emphasizes laboratory safety and the operational theory, use, and maintenance of instruments appropriate to biological, environmental, and medical investigations. Credit will not be given for ENSC 246 if credit is given for BISC 246.

275: Aquatic Bioassays. 0-1-1. Internet-based course centering on governmental regulations concerning bioassays to test for toxicity in waste effluents released into natural waters in the United States. Credit will not be given for ENSC 275 if credit is given for BISC 275.

310: Soil Science. 0-3-3. Preq., CHEM 100, 101, 102. A general study of soil science, emphasizing the relation of soil properties and processes to plant growth. Cannot be taken for credit if student has credit for PLSC 310.

311: Soil Science Laboratory. 3-0-1. Preq. or Coreq., ENSC 310. Laboratory exercises to elaborate fundamental principles of soil properties, soil testing, and soil survey reports. Cannot be taken for credit if student has credit for PLSC 311.

313: Ecology. 4 1/4-2-3. Preq., BISC 132, 133. An overview of the interactions of plants, animals, and non-living factors as they influence individuals, populations, communities, and ecosystems. Credit will not be given for ENSC 313 if credit is given for BISC 313.

400: Environmental Science Seminar. 0-1-3(3). Reviews, reports, and discussions of current problems relating to environmental science. Credit will not be given for ENSC 400 if credit is given for BISC 480.

422: Occupational Health and Safety. 0-3-3. The design and implementation of occupational health and safety services to including fitness-to-work evaluations, health monitoring, hazard evaluation and response to emergencies involving hazardous substances. (G)

444: Environmental Microbiology. 4-2-3. Preq., BISC 260. Basic and contemporary aspects of soil, water, and industrial microbiology. Credit will not be given for ENSC 444 if credit is given for BISC 444.

450: Management of Soil & Water Quality. 3-2-3. Preq., ENSC 310 or PLSC 310. Study of agricultural practices and other activities that affect soil and water quality with an emphasis on solutions that avoid or minimize adverse environmental impacts. Cannot be taken for credit if student has credit for PLSC 450.

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456: Environmental Chemistry. 0-3-3. Prq., one year of college chemistry and junior standing. Chemical principles that regulate and affect the environment. (G)

458: Environmental Law. 0-3-3. Prq., Junior standing or consent of instructor. A review and analysis of state and federal laws, conventions, and international treaties that influence natural resource management. (G)

477: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On site, supervised, structured work experiences located within a 100 mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for AGSC 477.

478: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On site, supervised, structured work experiences located within a 101-200 mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for AGSC 478.

479: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On site, supervised, structured work experiences located beyond a 201 mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for AGSC 479.

**FAMILY & CHILD STUDIES (FCS)**

100: Marriage and Family Relations. 0-3-3. Significant factors for successful marriage, marital adjustment, and family relations.

101: Skills for Marriage. 0-3-3. Designed to provide students with information and skills necessary to facilitate an enduring and satisfying marriage.


201: Introduction to Life Span Development. 0-3-3. Basic principles and sequences in human development from prenatal period through aging years. Emphasis on developmental tasks, forces influencing development, and the family life cycle.

210: Family Interpersonal Relationships. 0-3-3. The study of interaction between individuals with application to family dynamics, personal relationships, professional interaction, and job competency.

221: Parent and Community Involvement. 0-3-3. Introduces students to theories, research, and techniques of family and community involvement for teachers working with children birth to age 8 years and their families.

276: Children's Near Environments. 0-3-3. An examination of issues related to the near environment of children including child nutrition, food preparation and activities, housing, equipment, and clothing needs.

277: Guiding Infants and Young Children. 0-3-3. Principles and techniques of positive guidance emphasizing a problem solving philosophy and a child-centered approach.

280: Hospitalized Children and Youth. 0-3-3. Study of issues involved in childhood illnesses and hospitalization.

291: Orientation to Child Life Programs. 0-3-3. A study tour of child life programs and services.

301: Early Childhood Development. 3-2-3. Prq., FCS 201. The development of young children. Theory and practice are correlated through readings, class discussions, and preschool laboratory experiences.

311: Literacy Development in Early Childhood Education. 0-3-3. Prq., Admission to a teaching program or consent of instructor. Development of early language skills. Emphasis on the preschool language arts curriculum as preparation for language development.

320: Family Theory. 0-3-3. Prq., FCS 100, 201 or consent of instructor. An overview of theoretical frameworks in family science with primary emphasis given to application of constructs.

321: Methods in Early Childhood Education. 3-2-3. Prq., Admission to a teaching program and FCS 301 or consent of instructor. Important factors in planning for preschool children. Emphasis on objectives, planning nursery school experiences, and evaluation.

331: Infant Development. 3-2-3 Prq., FCS 201 or consent of instructor. Survey of influences on prenatal and infant development. Theory and practice correlated through readings, class discussion and laboratory experiences.

341: Issues and Applications in Middle Childhood and Early Adolescence. 3-2-3. Prq., FCS 201 or consent of instructor. A survey of middle childhood and early adolescent years as they relate to children's development and family interaction; includes observation and laboratory experiences.

355: Advanced Interpersonal Skills for the Family & Child Advocate. 0-3-3. Prq., FCS 100, 210. Examination of interpersonal skills for the family and child helping professional or advocate. Discussion of traditional helping paradigms.

361: Techniques for Observing and Assessing Young Children. 3-2-3. Prq. FCS 301 or 331. Skills and strategies needed to observe and assess children's development.

380: Understanding Childhood Diseases and Disorders. 0-3-3. Overview of childhood diseases/disorders, diagnostic tests, and treatment, with emphasis on effects of illness on normal growth and development and family functioning.

395: Research Methods in Family and Child Studies. 0-3-3. Prq., FCS 320 or consent of instructor. Examination of methods, implications, and ethics of child and family research. Theory based research and competency in reading empirical studies will be emphasized.

400: Contemporary Family Issues. 0-3-3. Selected issues related to family interaction and adjustment from an ecosystem perspective.

401: Curriculum and Organization of Early Childhood Education Programs. 0-3-3. Prq., Admission to a teaching program or consent of instructor. Organization of preschool programs with emphasis on creative activities, materials and facilities. (G)


420: Issues in Family Life Education. 0-3-3. Prq., FCS 320. Methodology of teaching current family issues in family education programs. Development of family life educator skills with emphasis on parent education and marital enrichment. (G)

421: Student Teaching in Early Childhood Education: Nursery School. 16-1-6. Prq., Admission to a teaching program and FCS 321, consent of instructor, preregistration and application required. An intensive practical experience in supervised nursery school teaching.

432: Adolescent Under Stress. 3-3-3. Prq., FCS 301 or consent of instructor. In-depth study of issues relating to the identification, understanding, and intervention in childhood stress.

435: Family Coping. 0-3-3. An examination of the stressors encountered by families over the life span, with attention placed on examining the needs, coping, and resources of families. (G)

447: Issues in Gerontology. 0-3-3. Prq., FCS 201 or PSYC 308 or consent of instructor. Issues that impact older age adults including public policy, close relationships, sexuality, housing, nutrition and consumerism. (G)

451: Theory, Guidance, and Therapeutic Value of Play. 0-3-3. Prq., FCS 301 or FCS 331 or FCS 341. Study of play in teaching, therapy, and creativity for children and youth.

461: Administration of Programs for Young Children. 0-2-2. Prq., FCS 301 and 331 or consent of instructor. Planning and administration of programs for young children.

471: Family Law and Public Policy. 0-3-3. Prq., FCS 100 and 400 or consent of instructor. The study of the legal system and public policy as they relate to family structure and function. (G)

480: Families with At Risk Children, Birth Through Preschool. 0-3-3. Prq., FCS 320 or consent of instructor. Application of family theory to families with special needs children, birth through preschool. Appropriate for child life, early childhood education, early intervention professionals. (G)

490: Perspectives in Family and Child Studies. 0-3-3 (9). Prq., FCS 201 and 210 or consent of instructor. An in-depth study of current trends and issues that relate to strengthening children and families.

501: Contemporary Issues in Infancy and Preschool Years. 0-3-3. Seminar in current research in child development with emphasis on the infancy and preschool years.

502: Advanced Child Development. 0-3-3. An in-depth exploration into social/emotional, cognitive and physical development of children from birth to 8 years of age.

510: The Family in Middle and Later Years. 0-3-3. Study of changes, needs and adjustments during the middle and later years of the family.

520: Interpersonal and Family Dynamics. 0-3-3. Study of dynamics of family interaction and relationship functioning. Emphasis on current research and issues confronting contemporary families.

521: Family Crisis. 0-3-3. Origins, development, and coping responses to predictable and unexpected crises of family systems in varied ecological settings.

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522: Family Life Education Programs. 0-3-3. Study of theory and methods used in developing programs to reduce mental health risks and build strengths of families.

530: Early Childhood Programs. 0-3-3. Survey of early childhood program models.

540: Parent Involvement. 0-3-3. Theories, issues and public policy of parent involvement in the educational process of children.

561: Advanced Administration of Early Childhood Programs. 0-3-3. An in-depth study of administering and organizing programs serving young children.

590: Seminar: Family & Child Studies. 0-3-3 (12). An in-depth study of current trends and research related to children and families. May be repeated for credit with change of seminar topic.

FINANCE (FINC)

318: Business Finance. 0-3-3. Preq., ACCT 202; ECON 202 or 215; MATH 125, and junior standing. An introduction to the principles of financial management including the role of the financial manager, problems of liquidity vs. profitability, budgeting of capital expenditures, management of short-term and long-term funds, and management of assets.

319: Intermediate Financial Management. 0-3-3. Preq., FINC 318. Advanced practices of financial management are developed. Financial models used in decision-making and their application to major areas of business finance are emphasized.

330: Risk and Insurance. 0-3-3. A comprehensive study of risk-bearing, including insurance and non-insurance methods of handling a risk; introduction to the fields of life, disability, property, and casualty insurance.

401: Internship in Finance I. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

402: Internship in Finance II. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

412: International Finance. 0-3-3. Preq., FINC 318. A study of the various modes of financing international trade, including international financial organizations, an analysis of exchange rates, foreign investments, multinational firms, and international banking. (G) (IER)

414: Investments. 0-3-3. Preq., FINC 318. Analyses of investments in common stocks, bonds, and other financial assets; sources of information for the investor; analysis of firms' financial statements; classes of investments. (G)

421: Portfolio Risk Management. 0-3-3. Preq., FINC 414. Examine concepts in portfolio theory. Evaluate the implications of portfolio building, security selection, and risk-management techniques, including the use of derivatives. (G)

422: Bank Management. 0-3-3. Preq., FINC 318. Problems in organization, operation, and management of commercial banks, with special emphasis on credit banking. (G)

425: Money Markets, Capital Markets and Financial Institutions. 0-3-3. Preq., FINC 319. A survey of the markets in which funds are traded; a survey of the lending and investing characteristics of selected financial institutions. (G)

430: Advanced Financial Management. 0-3-3. Preq., FINC 319. The case method is used to apply decision-making procedures to realistic problems in financial management.

431: Life Insurance. 0-3-3. A comprehensive study of personal and group life, accident and health, hospitalization, old age, survivors and disability insurance and annuities.

442: Principles of Real Estate and Land Economics. 0-3-3. Land utilization, city growth, land development, legal processes and transactions, real estate marketing, financing and financial institutions, taxes, condemnation, planning and zoning.

443: Appraisal. 0-3-3. Application of value theory and principles to real estate values; professional appraisal principles methodology. Corresponds to Appraisal I, the Appraisal Institute.

445: Real Estate Finance. 0-3-3. Preq., FINC 318. Finance principles applied to real estate. Sources of funds, legal and financial instruments, and analytical methods for decision-making. (G)

511: Risk Management. 0-3-3. The economic concept of risk and various techniques utilized in the discovery, evaluation and treatment of a business pure risk.

515: Financial Management. 0-3-3. Preq., ACCT 505 or consent of instructor. The study of a financial manager's role in financial planning, acquisition and management of funds for a business firm.

516: Financial Management: Policies and Practices. 0-3-3. Preq., FINC 515 or consent of instructor. Application of decision-making procedures to financial management problems. Student is required to solve case problems and manage the financial affairs of computer simulated firm.

517: Capital Budgeting Seminar. 0-3-3. Preq., FINC 515 or consent of instructor. A systematic and thorough treatment of the theory and practice of capital expenditure management, emphasizing financial modeling and employing a quantitative format.

518: Advanced Commercial Banking. 0-3-3. FINC 515 or consent of instructor. Advanced studies in contemporary banking practices with special emphasis in credit analysis. Structuring of loans in specialized commercial lending areas as well as the entire credit granting decision process will be examined.

525: Seminar in Investments. 0-3-3. FINC 515 or consent of instructor. Study of the theories and techniques of investment analysis for purposes of evaluation and selection of investments.

550: Directed Study in Finance. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of finance.

610: Seminar in Financial Theory I. 0-3-3. Preq., FINC 515 (also, desirable that student has had an intermediate or advanced economics course). Examination and application of contemporary financial theory and analysis relating to business finance.

611: Risk Management. 0-3-3. Requires Doctoral standing. May require additional class meetings. The economic concept of risk and various techniques utilized in the discovery, evaluation and treatment of a business pure risk. Credit will not be given for FINC 611 if credit is given for FINC 511.


615: Seminar in Financial Theory II. 0-3-3. Preq., FINC 610. Requires Doctoral standing. Detailed study of both classic and contemporary literature that provides students with a cross-section of modern theoretical developments in the field of business finance.

616: Financial Management: Policies and Practices. 0-3-3. Preq., FINC 515 or consent of instructor. Requires Doctoral standing. May require additional class meetings. Application of decision-making procedures to financial management problems. Student is required to solve case problems and manage the financial affairs of computer simulated firm. Credit will not be given for FINC 616 if credit is given for FINC 516.

617: Capital Budgeting Seminar. 0-3-3. Preq., FINC 515 or consent of instructor. Requires Doctoral standing. May require additional class meetings. A systematic and thorough treatment of the theory and practice of capital expenditure management, emphasizing financial modeling and employing a quantitative format. Credit will not be given for FINC 617 if credit is given for FINC 517.

618: Advanced Commercial Banking. 0-3-3. FINC 515 or consent of instructor. Requires Doctoral standing. May require additional class meetings. Advanced studies in contemporary banking practices with special emphasis in credit analysis. Structuring of loans in specialized commercial lending areas as well as the entire credit granting decision process will be examined. Credit will not be given for FINC 618 if credit is given for FINC 518.


620: Seminar in Financial Institutions. 0-3-3. Preq., Doctoral standing and FINC 615. Theoretical and empirical studies of financial institutions. Modeling banking firms, efficiencies in banking, bank lending deposit insurance, and related topics.

625: Seminar in Investments. 0-3-3. FINC 515 or consent of instructor. Requires Doctoral standing. May require additional class meetings. Study of the theories and techniques of investment analysis for purposes of evaluation and selection of investments. Credit will not be given for FINC 625 if credit is given for FINC 525.

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630: Seminar in Corporate Finance. 0-3-3. Preq., Doctoral standing and FINC 615. Recent theoretical and empirical developments in corporate and managerial finance. Topics include sources and costs of firm financing, the market for corporate control, corporate governance, and related topics.

640: Advanced Seminar in Investments. 0-3-3. Preq., Doctoral standing and FINC 615. Recent theoretical and empirical developments in modern investment analysis. Topics include IPOS, fixed income investments, derivatives, mutual funds, efficient markets, market-microstructure, strategic trader behavior, and related topics.

650: Directed Study of Finance. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of finance.

685: Comprehensive Exam in Finance. No credit. (Pass/Fail). Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in finance. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in finance. Requires consent of graduate director.

FOOD & NUTRITION (FNU)

103: Human Nutrition and Weight Control. 0-1-1 (3) Pass/Fail. Personalized weight control program based on recommended nutrients, behavior modification and energy balance.

203: Human Nutrition. 0-3-3. Functions of various nutrients and their interrelationships in children and adults with emphasis on personal food habits and selection.

220: Life Cycle Nutrition. 0-3-3. Evaluation of variations in nutrition requirements in all stages of the life cycle, including prenatal, infant, childhood, adolescent, adult, and geriatric nutrition.

223: Nutrition Education. 0-2-2. Basic principles of nutrition with special emphasis on the preschool and school-age child. Techniques of presenting nutrition information to children (Planned for non-majors).

232: Basic Food Science. 3-2-2. Use of food science principles in food selection and preparation procedures. Introduction to food science research.


274: Introduction to Dietetics and Research. 0-3-3. An introduction to dietetics, trends affecting the profession, and the research process, including computer applications.

302: Quantity Foods Field Experience. 4-2-2. Preq., FNU 232. Equipment and production in the food service industry; field experience in food service facilities.


352: Food Systems Management I. 0-3-3. Preq., FNU 232, or consent of the instructor. Study of the principles of organization and management applied to institutional food service.


403: Community Nutrition. 0-3-3. Preq., FNU 203 or 220. Prevention and treatment of nutrition problems common to individuals, families, and communities. Includes survey of federal, state, and local nutrition programs for various age groups.


423: Medical Nutrition Therapy I: Diabetes, Cancer, & Heart Disease. 3-2-3. Preq., FNU 414. Medical nutrition therapy for cardiovascular disease, diabetes, cancer, food allergies, and AIDS.


461: Medical Nutrition Therapy III: Clinical Applications. 3-2-3. Preq. or Coreq., FNU 443. Structured experiences in nutrition and dietetics to develop assessment, interviewing, and nutrition education skills.

472: Food Systems Management II. 0-3-3. Preq., FNU 302. Study of the principles of organization and management applied to institutional food service.


503: World Nutrition Problems. 0-3-3. A study of world wide nutritional problems with special emphasis on recent research and contributing factors. Open to non-majors.

520: Advanced Life Cycle Nutrition. 0-3-3. A chronological approach to factors that influence nutritional requirements during various stages of human growth and development.

523: Recent Advances in Medical Nutrition Therapy. 0-3-3 (12). Current developments in normal nutrition, nutrition assessment, and diet therapy.


526: Maternal & Infant Nutrition. 0-3-3. A study of current nutritional issues related to pregnancy, lactation, and infancy.

527: Issues in Adult Weight Management. 0-3-3. A study of nutrition guidelines for weight management.

528: Nutritional Management of Cardiovascular Disease. 0-3-3. The role of diet in the prevention, development, and treatment of cardiovascular disease.


530: Nutritional Assessment. 0-3-3. Nutritional assessment of patients with medical problems.

531: Nutrition & Renal Disease. 0-3-3. A study of nutritional issues related to renal disease.

532: Nutrition & Aging. 0-3-3. A study of the nutritional issues related to the aging process.

533: Dietary Supplements in Human Nutrition. 0-3-3. A study of vitamins, minerals, herbs, phytochemicals, and other compounds used as supplements in human nutrition.

534: Nutrition Support. 0-3-3. Current developments in nutrition support related to various disease states including diabetes, liver disease, end-stage renal disease, gastrointestinal problems, and pulmonary failure.

543: Nutrition and Worksite Wellness. 0-3-3. The role of wellness programs in community and clinical settings, including assessment, planning, implementation, and evaluation of programs.

547: Childhood Weight Issues and Management. 0-3-3. A comprehensive overview of the pediatric obesity epidemic, and the most recent recommendations regarding screening, assessment, and treatment for overweight youths.


553: Clinical Management and Private Practice in Dietetics. 0-3-3. Techniques in dietetics-nutrition service settings to develop, manage, and evaluate private practice.

562: Trends in Food Systems Administration. 0-3-3 (12). Seminar on current topics in food systems administration with emphasis on student's area of interest.

FOREIGN LANGUAGES (FLNG)

101: Special Offerings in Less Commonly Taught Languages: Elementary 1. 0-3-3. Introduction to a foreign language not listed in other departmental offerings; emphasis on communicative competence for contemporary languages and on reading competence for classical languages.

102: Special Offerings in Less Commonly Taught Languages: Elementary 2. 0-3-3. Preq., FLNG 101. Introduction to a foreign language not listed in other departmental offerings; emphasis on communicative competence for contemporary languages and on reading competence for classical languages.

201: Special Offerings in Less Commonly Taught Languages: Intermediate 1: 0-3-3. Preq., FLNG 102. The more complex structures of a language not listed in other departmental offerings; emphasizes communicative competence for contemporary languages and reading competence for classical languages.

202: Special Offerings in Less Commonly Taught Languages: Intermediate 2: 0-3-3. Preq., FLNG 201. The more complex structures

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of a language not listed in other departmental offerings; emphasizes communicative competence for contemporary languages and reading competence for classical languages.

203: Special Offerings in Less Commonly Taught Languages: Intermediate 3: 0-3-3. Preq., FLNG 202. The more complex structures of a language not listed in other departmental offerings; emphasizes communicative competence for contemporary languages and reading competence for classical languages.

453: Foreign Language Teaching Methods. 0-3-3. Preq., 12 hours of a foreign language. Study of a broad range of foreign language teaching methods; examination of underlying theories and practical applications. Also listed as EDUC 453. (G)

470: Linguistics. 0-3-3. Preq., ENGL 201 or 202. Systematic study of language acquisition, change, and variation; application to teaching grammar, writing, and/or literature. Also listed as ENGL 470. (G)

489: Special Topics. 0-3-3 (6). Preq., advanced standing and permission of Department Head. Topic to be designated by the instructor. (G)

494: Independent Studies in Foreign Languages. 1-3 credit hours (9). Preq., advanced standing and permission of Department Head. Topics in foreign languages, literature and linguistics for independent study in the student's curriculum specialty.

FOREIGN STUDIES (FSU)

101: Special Academic Studies. 1-3 hours. Special academic studies conducted in foreign countries.
102: Special Academic Studies. 1-3 hours. Special academic studies conducted in foreign countries.
301: Special Academic Studies. 1-3 hours. Special academic studies conducted in foreign countries.
304: Special Academic Studies. 1-3 hours. Special academic studies conducted in foreign countries.
307: Special Academic Studies. 1-3 hours. Special academic studies conducted in foreign countries.

FORESTRY (FOR)

101: Introduction to Forest Resources. 4-0-1. An introduction to forest resources management and utilization.
201: Micromercury Applications. 0-3-3. Introduction to microcomputers with specific applications in filing conventions, word processing, spreadsheets, electronic communications, and other topics.
202: Forest Fire. 0-2-2. Fire; its role in ecosystems, use in management, and control.
205: Dendrology. 3-1-2. Preq., BISC 130 or 134. The identification, classification, characteristics, and distribution of the principal forest trees of the United States, with emphasis on conifers.
206: Dendrology. 4-0-1. Preq., FOR 205. A continuation of FOR 205, with emphasis on hardwoods and spring and summer characteristics.
300: Forest Soils. 3-2-3. Preq., CHEM 100 or 120, or permission of instructor. Physical, chemical and biological properties of forest soils and associated management problems with an emphasis on site productivity and sustainability.
302: Silviculture. 4-2-3. Preq., FOR 301 or BISC 313. An in-depth study of practices used in forest stands to regenerate, cultivate, and harvest them.
306: Forest Measurements. 4-2-3. Preq., MATH 101 and 212 or equivalents. Principles of sampling and measuring trees, area, forest stands, growth, and land productivity.
310: Forest Sustainability and Recreational Use. 4-1-2. Practices and techniques that support sustainable forestry and recreational use of southern forests.
312: Forest and Forest Products Entomology. 0-2-2. Study important insects affecting pine, hardwood, and urban trees in the South, including a basic overview of insects in relation to the Animal Kingdom.
313: Forest and Forest Products Pathology. 4-2-3. The important diseases of forests and forest products.
314: Wildlife Habitat Evaluation and Management. 4-2-3. Habitat requirements, evaluation, and management for wildlife.
315: Forest Measurements. 3 credit hours. Preq., FOR 306 and MATH 212. Execution of forest surveys; techniques of growth measurement; determination of volume of trees and stands.

318: Forest Operations. 3-2-3. Study of mechanized forest operations including all functions from timber felling to delivery of product to mill. Logging safety. Machinery costs. Forest road engineering.
319: Forest Products Manufacturing. 3-0-1. An in-depth look at the manufacturing processes used to produce the major forest products and tours of selected production facilities.
320: Field Silviculture. 8-0-2. Preq., FOR 302. The practice of silviculture field procedures used in the southern forest to regenerate and grow tree stands.
401: Forest Management. 0-3-3. Preq., Forestry Field Session excluding FOR 319. Managing forest properties to meet landowner objectives using growth and yield models, optimization techniques, best management practices, and sound business principles.
402: Watershed Management. 3-2-3. Preq., FOR 301 and 405, or permission of instructor. Water resources and problems. Emphasis on the forest hydrologic system and its management. (G)
404: Wood Technology and Products. 3-2-3. Preq., BISC 130 or 134; FOR 205. Formation, structure, identification and properties of commercial woods plus an overview of the manufacturing processes used to produce the major forest products. (G)
406: Forest Economics/Valuation. 0-3-3. Preq., ECON 201 or 202 or 215 and junior standing. Economics and financial principles as a basis for decision making in forestry. (G)
410: Forest Policy. 0-3-3. Preq., Forestry Field Session excluding FOR 319. The basic principles of policies, and professional ethics of federal, state, and private forestry. (G)
412: Forest Tree Improvement. 0-2-2. Methods of improvement of forest trees by use of modern plant breeding techniques. (G)
413: Professional Practice. 6-0-2. Preq., FOR 401, 406, and 425. Data acquisition and analysis; and development of forest resource management alternatives and recommendations. A comprehensive competency exam is administered.
420: Problems. 1-3 semester hours credit (9). Special problems in forestry and wood utilization correlated with management of land and natural resources.
425: Forest Growth & Yield Modeling. 0-3-3. Preq., FOR 306, MATH 212, and AGSC 320 or QA 233, or STAT 200 or PSYC 300. Concepts, theories, and parameters involving the development and use of growth models; emphasizing applications to forest growth projections and management.
428: Wetland Ecology. 0-3-3. Study of wetland characteristics and the ecological processes occurring within wetlands. Wetland delineation, restoration, construction and regulation will also be covered. Cannot be taken for credit if student has credit for BISC 428.
445: Forest Ecosystem Management. 4-2-3. Preq., junior standing or higher, or consent of instructor. The ecosystem of the South, their history, function, components, protection, and management. (G)
477: Practica/Internship/Cooperative Education in Forestry. 1-9 hours credit (9). (Pass/Fail). Preq., Sophomore standing, 2.0 cumulative GPA, and approval of Forestry Experiential Education Coordinator. On site, supervised, structured work experiences located within a 100 mile radius of Ruston. Application and supervision fee required.
478: Practica/Internship/Cooperative Education in Forestry. 1-9 hours credit (9). (Pass/Fail). Preq., Sophomore standing, 2.0 cumulative GPA, and approval of Forestry Experiential Education Coordinator. On site, supervised, structured work experiences located within a 101-200 mile radius of Ruston. Application and supervision fee required.
528: Advanced Wetland Ecology. 0-3-3. Study of wetland characteristics and the ecological processes occurring within wetlands. Wetland delineation, restoration, construction and regulation will also be covered. Credit will not be given for FOR 528 if credit is given for BISC 528.

FRENCH (FREN)

101: Elementary French. 0-3-3 each. Conversation, reading and grammar. Statewide Transfer Agreement Course*.
102: Elementary French. 0-3-3 each. Preq., FREN 101. Conversation, reading and grammar. Statewide Transfer Agreement Course*.
201: Intermediate French. 0-3-3 each. Preq., FREN 102 or equivalent. Conversation, reading, grammar and culture. Statewide Transfer Agreement Course*.
202: Intermediate French. 0-3-3 each. Preq., FREN 201 or equivalent. Conversation, reading, grammar and culture. Statewide Transfer Agreement Course*.
203: French Conversation and Composition. 0-3-3 each. Preq., FREN 202 or permission of department head. Required for major in French.
204: Survey of French Literature. 0-3-3. Preq., FREN 202 or permission of department head. Required for major in French. A survey of French literature from the Middle Ages.
205: Survey of French Literature. 0-3-3. Preq., FREN 202 or permission of department head. Required for major in French. A survey of French literature from the Middle Ages.
208: French Civilization. 0-3-3. Preq., FREN 202 or permission of department head. Lectures and reading in history, geography, language, arts, and general culture of French lands.
300: Francophone Children's Literature. 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of French-speaking children's stories, songs, rhymes and games.
400: The Drama in France. 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of the drama in France up to 1914, with reading of selective works.
401: Contemporary French Literature. 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of French literature from 1914 to the present with reading of selective works.
417: The Novel in French. 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of the novel in France, with reading of selective works.
203: Physical Geography. 0-3-3. Fundamentals of physical and biogeography. Topics include surface and fluvial geomorphology, weather, climate, and biogeography. Statewide Transfer Agreement Course*.
205: Cultural Geography. 0-3-3. Discussion of the spatial patterns of the human world; people, their culture, their livelihoods, and their imprints of the landscape. Statewide Transfer Agreement Course*.
210: World Regional Geography. 0-3-3. Introduction to place and spatial relationships around the globe, with an emphasis on the developing world. (IER)
290: Geography of Popular Culture. 0-3-3. Examines the patterns and processes of American popular culture. Topics include the geography of sports, music, television, movies, and popular architecture.
310: Geography of Louisiana. 0-3-3. Open only to junior, senior and graduate students. The climate, natural regions, and resources of Louisiana; cultural development, sources and distribution of the population; settlements and agriculture.
312: Race and Ethnic Relations. 0-3-3. Preq., SOC 201 or GEOG 205 or 210. Factors and conditions which underlie disagreement about fundamental values; their relation to social maladjustment; evaluation of theories; group approaches to reintegration. Also listed as SOC 312.
321: American Landscapes. 0-3-3. Folk, vernacular, and popular landscape items are explored. Special attention is given to developing student’s ability to “read” the American landscape as text.
331: Geography of Latin America and the Caribbean. 0-3-3. Preq., GEOG 203 or GEOG 205 or GEOG 210. Provides a broad introduction of Latin America and the Caribbean, and includes a focus on both the physical and cultural dimensions of the region. (IER)
341: Computer Cartography. 0-3-3. Preq., GISC 250. Elements of map interpretation and construction: creation, manipulation, and analysis of spatially defined data. Also listed as GISC 341.
400: Economic Geography. 0-3-3. A spatial perspective is used to examine economic principles. Topics include transportation, retail and industrial site location analysis, and the political/space economy.
470: Urban Geography. 0-3-3. Patterns and processes of large North American cities are examined. Topics covered include urban politics, urban government, urban revitalization and gentrification.
490: Perspectives on Place and Space. 0-3-3. Preq., GEOG 205 or 290, or permission of instructor. This course introduces advanced students in the social sciences to “new cultural geography” perspectives, critical theory, and cultural studies approaches to place and space.
GEOGRAPHY (GEOG)
203: Physical Geography. 0-3-3. Fundamentals of physical and biogeography. Topics include surface and fluvial geomorphology, weather, climate, and biogeography. Statewide Transfer Agreement Course*.
205: Cultural Geography. 0-3-3. Discussion of the spatial patterns of the human world; people, their culture, their livelihoods, and their imprints of the landscape. Statewide Transfer Agreement Course*.
210: World Regional Geography. 0-3-3. Introduction to place and spatial relationships around the globe, with an emphasis on the developing world. (IER)
290: Geography of Popular Culture. 0-3-3. Examines the patterns and processes of American popular culture. Topics include the geography of sports, music, television, movies, and popular architecture.
310: Geography of Louisiana. 0-3-3. Open only to junior, senior and graduate students. The climate, natural regions, and resources of Louisiana; cultural development, sources and distribution of the population; settlements and agriculture.
312: Race and Ethnic Relations. 0-3-3. Preq., SOC 201 or GEOG 205 or 210. Factors and conditions which underlie disagreement about fundamental values; their relation to social maladjustment; evaluation of theories; group approaches to reintegration. Also listed as SOC 312.
321: American Landscapes. 0-3-3. Folk, vernacular, and popular landscape items are explored. Special attention is given to developing student’s ability to “read” the American landscape as text.
331: Geography of Latin America and the Caribbean. 0-3-3. Preq., GEOG 203 or GEOG 205 or GEOG 210. Provides a broad introduction of Latin America and the Caribbean, and includes a focus on both the physical and cultural dimensions of the region. (IER)
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490: Perspectives on Place and Space. 0-3-3. Preq., GEOG 205 or 290, or permission of instructor. This course introduces advanced students in the social sciences to “new cultural geography” perspectives, critical theory, and cultural studies approaches to place and space.
GEOGRAPHIC INFORMATION SCIENCE (GISC)
200: Introduction to GeoSpatial Technologies: 3-1-2. Overview of fundamental concepts of Geographic Information Systems (GIS) and related technologies, such as global positioning systems (GPS), remote sensing, and aerial photo interpretation.
341: Computer Cartography. 0-3-3. Preq., GISC 250. Elements of map interpretation and construction: creation, manipulation, and analysis of spatially defined data. Also listed as GEOG 341.
371: Advanced Geographic Information Systems (GIS) and Spatial Analysis. 0-3-3. Preq., GISC 350. Advanced techniques in geographic information systems, integrated with intermediate level spatial analysis. Also listed as GEOG 371.
420: Problems in Geographic Information Science. 1-3 semester hours credit (6). Special problems in GIS, spatial data, remote sensing and other areas of Geographic Information Science.
464: GIS Application Project. 12-0-4. Preq., GISC 461, 463. Students must solve a problem using spatial data and the analysis capabilities of GIS.
GEOLOGY (GEOL)
111: Physical Geology. 0-3-3. Igneous, sedimentary, and metamorphic rocks; erosion of the earth by streams, oceans, winds, glaciers; phenomena of mountains, volcanoes, earthquakes; and the earth's interior.
112: Historical Geology. 0-3-3. Preq., GEOG 111. History of the earth as revealed in the character and fossil content of rocks.
121: Physical Geology Laboratory. 3-0-1. Preq., registration or credit in GEOL 111. Identification of minerals and rocks. Study of topographic maps and physiographic features shown thereon.

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.
122: Historical Geology Laboratory. 3-0-1. Preq., registration or credit in GEOL 112 and 121. Introduction to fossils, geologic maps, and the geologic history of selected portions of North America.

200: Introduction to Oceanography. 0-3-3. A survey of the oceans; their nature, structure, origin, physical features, circulation, composition, natural resources, and relationship to the atmosphere and solid earth.

201: Physical and Historical Geology of the National Parks. 0-3-3. Physical processes and earth history of the U. S. National Parks. Topics include: rock types, volcanism, plate tectonics, glaciation, shoreline processes, weathering, erosion, and cave formation.


289: Special Topics. 1-4 hours credit. Selected topics in an identified area of geology. May be repeated for credit.

299: Cooperative Education Applications. 40-0-1 (7). Preq., Admission to the College of Engineering and Science Cooperative Education Program.


316: Map Interpretation. 6-0-2. Preq., GEOL 305 and 315. Interpretation of topographic maps, aerial photographs, geologic maps and geologic cross sections.

318: Environmental Geology. 3-2-3. Preq., GEOL 111, 121, and MATH 220, and ENGL 102. Discussion of natural and human hazards affecting the environment, including flooding, slope stability, earthquakes, coastal hazards, resource development, water pollution, and waste disposal.

320: Summer Field Camp/Internship. 6 hours credit. Preq., GEOL 211, 302 and 316, ENGL 303. Course work at an approved field camp or a career-related internship.

421: Micropaleontology. 3-2-3. Preq., GEOL 302. Study of microfossils used in correlation of well cuttings and outcrop samples, especially foraminifers.

422: Environmental Remediation. 0-3-3. Preq., FOR 355. Evaluation of alternative surface and subsurface cleanup technologies with emphasis on site assessments, pilot studies, treatment techniques, and the preparation of corrective action plans. (G)

460: Hydrogeology. 3-2-3. Preq., GEOL 111, 121, and MATH 220 or 112. Effect of geologic materials and processes on availability and movement of ground water with emphasis on collecting and interpreting hydrogeologic data.

485: Coastal Marine Geology. 8-3-4. Preq., GEOL 111, 121 or 112, 122, CHEM 101, 102, 103, 104. Geomorphological features of estuaries, coastal and continental shelf environments, erosional, depositional and geochemical processes, field and laboratory methods. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.

302: Survey of German Literature from 1800. 0-3-3. Preq., GERM 202 or permission of department head.

303: Classical German Literature. 0-3-3. Preq., GERM 202 or permission of department head. A study of German classicism, including Lessing, Goethe, Schiller.

305: Advanced German Grammar. 0-3-3. Preq., GERM 202 or permission of department head. An intensive course in German grammar with special attention to technical German.

307: German Conversation. 0-3-3. Preq., GERM 202 or permission of department head.

308: German Composition. 0-3-3. Preq., GERM 202 or permission of department head.

309: German Civilization. 0-3-3. Preq., GERM 202 or permission of department head. Lectures and readings in history, geography, language, arts and general culture.

HEALTH AND EXERCISE SCIENCES (HES)

Health and Physical Education 100 to 199 activity courses will stress basic techniques, rules and participation.

100: Special Group Activities. 3 3/4-0-1 (2). (Pass/Fail).

107: Aerobics Running. 3 3/4-0-1 (2). (Pass/Fail).

110: Adapted Physical Education. 3 3/4-0-2. For students not physically able to participate in regular activity courses. Statement from physician listing restrictions is required. (Pass/Fail)

122: Practicum. 3 3/4-0-1 (4). HPE Fitness/Wellness majors. Students assist a master teacher to learn proper methods of teaching aerobic, weight training, senior adult activities.

113: Instructional Strategies in Physical Education. 0-1-1. Introduction to planning and teaching physical education activities. Content includes lesson planning, practice of teaching skills through micro teaching, peer teaching, and analysis of teaching.

114: Varsity Sport Participation. 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.

115: Varsity Sport Participation. 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.

116: Varsity Sport Participation. 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.

117: Varsity Sport Participation. 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.

132: Beginning Tap Dance. 3 3/4-0-2.

141: Beginning Golf. 3 3/4-0-2. Learning basic golf skills and rules with limited play for beginning student with no experience.

145: Social Dance. 3 3/4-0-2.

150: First Aid. 0-2-2. Lectures, discussions, and practical demonstrations of Red Cross methods in First Aid.

181: Beginning Swimming. 3 3/4-0-2. Open to students who are unable to swim in deep water.


206: Fitness for the Senior Adult. 2 3/4-1-3. May be taken by senior adults for repeated credit. Senior adult exercise programs are designed utilizing chair and water exercises, strength machines, and walking.

210: Beginning Weight Training. 2 3/4-1-2 (4).

211: Powerlifting. 2 3/4-1-2 (4).

218: Beginning Karate. 2 3/4-1-2 (4).

231: Beginning Modern Dance. 2 3/4-1-2.

235: Beginning Racquetball. 2 3/4-1-2.

255: Individual Sports and Physical Activity. 3-2-3. HES majors/minors only. Individual sports and physical activities which include skill techniques and strategies of tennis, badminton, racquetball, bowling, archery, and golf are emphasized.

256: Aerobic Conditioning, Strength Conditioning, and Aquatics. 3-2-3. HES majors/minors only. Skill techniques and teaching strategies for instruction in aerobic, muscle fitness, flexibility, and aquatic conditioning which are for school aged children.

257: Lifetime Sport Series C - Selected Recreational Sports. 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the

GERMAN (GERM)

101: Elementary German. 0-3-3 each. Conversation, reading, and grammar. Statewide Transfer Agreement Course.*

102: Elementary German. 0-3-3 each. Preq., GERM 101. Conversation, reading, and grammar. Statewide Transfer Agreement Course.*

201: Intermediate German. 0-3-3 each. Preq., GERM 102. Conversation reading, grammar, and culture. Statewide Transfer Agreement Course.*

202: Intermediate German. 0-3-3 each. Preq., GERM 201. Conversation reading, grammar, and culture. Statewide Transfer Agreement Course.*

301: Survey of German Literature to 1800. 0-3-3. Preq., GERM 202 or permission of department head.

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fundamental skills/techniques, rules, and strategies used in selected recreational sports.


265: Team Sports and Group Activities. 3-2-3. HES majors/minors only. This course focuses on skills of performance and teaching, in the areas of team sports and group activities.

266: Team Sport Series B - Volleyball/Basketball. 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in volleyball and basketball.

267: Team Sport Series C - Softball/Track and Field. 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in softball and track.

271: Beginning Tennis. 2 3/4-1-2. Learning basic tennis skills, fundamentals, rules, and strategy for beginning players with limited or no experience.


275: Aerobic Dance and Conditioning. 2-1-2 (4).

280: Dance Appreciation. 0-3-3. An overview of the historical, cultural, and social impact of dance. Includes classifications of major dance styles, interpretation of dance literature and live performances.

290: Personal and Community Health. 0-3-3. Designed to develop attitudes and practices which contribute to better individual and group health. Emphasis is placed upon major health problems of early adulthood.

292: Preventive Health and Wellness. 0-3-3. Emphasis on chronic and degenerative diseases, mental health, preventing communicable and non-communicable diseases and the role of physical fitness in preventive health and wellness.

293: Consumer and Environmental Health. 0-3-3. Directing the consumer in selection of health services and understanding the effect of environmental pollution.

300: Safety Education. 0-3-3. The social, emotional, economic, and legal impact of safety and accidents in the home, at work, and in leisure/sports activities.

301: Curriculum Innovations, Instructional Devices and Lab Instruction in Drivers Education. 3 3/4-3-4. In-depth study of curriculum materials and instructional devices and techniques including Simulation, Multimedia Driving Range, On-Street instruction, and Motorcycle.

306: Principles and Practices of Football Coaching. 0-2-2. Preq., sophomore standing. Designed to familiarize the student with various defensive and offensive systems that contribute to a successful program.


316: Exercise and Sport Psychology. 3 3/4-0-3. Preq., junior standing, Admission to a teaching program. Psychological aspects of exercise and sport with emphasis on mental preparation for athletic performance.

326: Applied Anatomy and Kinesiology. 0-3-3. Preq., junior standing, BISC 224, Admission to a teaching program. Analysis of movement based on a knowledge of anatomy and physiology as applied to the function of body mechanics.

333: Motor Learning. 0-3-3. Introduction to applied aspects of motor learning, applied to exercise science, and including completion of an experimental study involving motor learning principles.

350: Drugs and Sport. 1-3 3/4-3. Preq., HES majors or intercollegiate athletes. Develop a knowledge of drugs, effects, sound use, preventive drug abuse, effective programs for drug education and athletes.

402: Measurement and Evaluation in Health and Physical Education. 0-2 1/2-2. Preq., senior standing, Admission to a teaching program. Designed to familiarize the physical educator with statistical methods, measurement of physical parameters, and procedures for effective written and skill test construction and evaluation.


406: Health Aspects of Aging. 0-3-3. Preq., Junior standing. Provides an understanding of the health aspects of aging as it pertains to the biological, physiological, psychological, and sociological factors in mature adults. (G)

407: Exercise Prescription. 2-2-3. Preq., Junior standing. Provides an understanding of individualized exercise prescription design in programs to develop and maintain physical fitness through testing and re-evaluation strategies. (G)


409: Measurement of Physiology Variables. 2 1/2-0-1. Preq., Junior standing. Exercise physiology laboratory experience providing students with an opportunity to measure and evaluate selected physiological parameters.

410: The Designing, Building, and Maintenance of Sport and Physical Fitness Facilities. 0-3-3. Preq., Junior standing. The equipping, designing, building, and maintenance of physical fitness and sports environments of different facilities. (G)

414: Introducing Adapted Physical Education. 0-3-3. Preq., Junior standing. To familiarize the student with the role of adapted physical education and the physical, emotional, social and learning characteristics of exceptional children. (G)

415: Internship. 15-3-6. Consent of department head and within two quarters of graduation. Requires 180 clock hours in practical experiences in approved programs with departmental approval and student advisor.

416: Adult Fitness Programming. 2 1/2-1-3. Preq., HPE 406, Junior standing. Course is designed to instruct individuals in implementation of fitness programs and management of the various facilities which include fitness management. (G)

418: Strength and Conditioning for Improved Performance. 3 3/4-0-3. Preq., HPE 326, 407, 408, 409, Junior standing. Procedures to strengthen and condition individuals in aerobic and anaerobic activities. Exercise models, performance evaluations, exercise equipment, training ethics, and professional development are discussed. (G)

420: Sports and Society. 0-3-3. The focus will be on physical activity and sport participation related to other social, cultural, economic, and political developments.

433: Special Problems in Health and Physical Education. 1-3 hour(s) credit (9). Consent of Department Head. Designed for selected problems in Health and Physical Education.

440: Materials and Methods in Health and Physical Education in Elementary Schools. 1-3-3. Preq., Admission to a teaching program. This course is designed to prepare teacher candidates to effectively teach physical education and health to children in grades K-6. (G)

457: Materials and Methods in Teaching Middle and Secondary School Health and Physical Education. 1-3-3. Preq., HES 290, 292, admission to a teaching program. Methods, materials, and analytical skills used in teaching health and physical education. Practical application of methods, materials, and analytical skills. (G)

509: Tests and Measurement. 0-3-3. Using current research to select the best procedures to measure and test the student's physical fitness, motor ability, sports skills, and cognitive knowledge.

515: Internship. 15-3-6. Requires 220 to 240 clock hours in departmentally approved practical experiences in rehabilitation, corporate, community, educational, athletic, medical, or fitness/wellness programs.

518: Recent Literature and Research in Physical Education, Physical Fitness and Wellness. 0-3-3. Review and evaluation of reports of recent research in physical education. Review of research methodology for analysis of both qualitative and quantitative nature.


522: Observing and Teaching in Adapted Physical Education with the Behavior Impaired. 3-0-1. Preq., Concurrent with 521. Practicum in physical education for the severely disabled.

523: Chronic Disability and Physical Education. 0-2-2. Focus is on individuals with chronic and permanent physical disabilities, which affect motor performance with implications for selection of activities in physical education.

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524: Observing and Teaching in Adapted Physical Education with the Chronically Disabled. 3-0-1. Preq., Concurrent with HPE 523. Practicum in physical education for the chronically and permanently disabled.

526: Physiology of Exercise. 0-3-3. Understanding the physiological responses of the body systems to exercise, the recovery process, and systematic training regimens.

531: Physical Education Curriculum for the Handicapped. 0-3-3. Needs of the physically and mentally handicapped as related to the physical education program. Study of specific activities, methods and evaluation.

533: Problems in Health, Physical Education, Recreation and Athletics. 1-3 hour(s) credit (6). Consent of Department Head. Credit depends on the nature of the problem and work to be accomplished.

534: Mechanical Analysis of Motor Skills. 0-3-3. Analysis of the various motor skills to determine their relationship to basic mechanical principles, anatomical and kinesiological factors, laws of physics, etc.

536: Physiology of Exercise II. 0-3-3. Preq., HPE 526. A continuation of HPE 526 designed to enhance understanding of physiological responses to acute and chronic exercise as it relates to performance and health-related fitness.

539: Sports Psychology. 0-3-3. Course designed to explore the behavior of individuals participating in play, game and sports.

540: Sport Impact on Society. 0-3-3. The impact of sports upon the American culture with focus on competition, economics, mythology, race relations and the Olympic syndrome.

545: Health Promotion and Wellness. 0-3-3. A multi-level approach toward implementing preventive health programs in school and organizational settings with emphasis on stress management, smoking cessation, and injury prevention.

585: Comprehensive Examination in Health & Exercise Science. No credit. (Pass/Fail). Graduate standing required. Required for all graduating graduate students enrolled in the MS program of study in Health & Exercise Science. Requires consent of the College of Education Graduate Director. May be repeated once.

HEALTH INFORMATION MANAGEMENT (HIM)

103: Introduction to Medical Terminology. 0-3-3. A basic study of the language of medicine including word construction, definition and use of terms and an elementary study of the human anatomy, structures and functions with medical terminology application.

107: Introduction to Health Information Management. 0-3-3. Preq. or Coreq. HIM 103. An introduction to the field of Health Information Management (HIM), professional ethics, and the basic functions of the HIM department.

108: Laboratory Practice in Basic Health Information Management Procedures. 3-0-1. Preq. or Coreq., HIM 107. An introduction to applications of modern technology and software for admissions, deficiency analysis, chart assembly, data retrieval and data storage.


128: Computer Applications for Health Care Professionals. 0-3-3. Concepts of computer technology related to healthcare information and the tools and techniques for collecting, storing, and retrieving healthcare data.

204: Medical Transcription. 3-1-2. Preq., a minimum grade of “C” in HIM 107. An introduction to transcription of record forms and supervision of the medical transcription function.


208: Laboratory Practice in Coding. 3-0-1. Coreq., HIM 207. Practical application and laboratory practice in coding using ICD-9-CM.


218: Intermediate Coding/Classification Systems. 0-3-3. Preq., Minimum grade of “C” in HIM 207 and 208. Other classifications, nomenclatures, and medical vocabularies. Application of coding principles as they affect reimbursement, the prospective payment system, and ethical issues related to reimbursement.

219: Intermediate Coding Laboratory. 3-0-1. Coreq., HIM 218. Practice in coding inpatient and outpatient records, case-mix analysis, and PPS reimbursement methodology.


226: Legal Aspects of Health Information Management. 0-2-2. Preq. HIM 107. A study of the principles of law as applied to the health field and medical record practice.


234: Quality Improvement Laboratory. 3-0-1. Preq., HIM 115, and 224. Practical application of healthcare statistics, quality assessment tools, and accreditation standards.

235: Advanced Coding Laboratory. 3-0-1. Preq., Minimum of 2.25 GPA in the HIT curriculum. Coreq., HIM 277, or 278, or 279. All other HIT course work must be complete. Intensive study of the principles of various coding systems through practical application.


241: Health Information Services Laboratory. 3-0-1. Application of supervisory techniques to health information functions and services.

277: Practica/Internship/Cooperative Education in Health Information Management. 40-0-6. Preq., Minimum of 2.25 GPA in curriculum and course work complete. Scheduled in the quarter of graduation. On site, supervised, structured work experiences located within a 100-mile radius of Ruston. Application and supervision fee required.

278: Practica/Internship/Cooperative Education in Health Information Management. 40-0-6. Preq., Minimum of 2.25 GPA in curriculum and course work complete. Scheduled in the quarter of graduation. On site, supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and supervision fee required.


299: Special Problems. 1-4 semester credit hours. Preq., consent of instructor. Selected topics in an identified area of study in Health Information Management.

312: Health Data Content & Structure. 0-3-3. Preq., Jr. standing. Introduction to health information systems with an emphasis on healthcare vocabulary, standards and models, and on the computer-based patient record.

318: Data Management in Healthcare. 0-3-3. Preq., HIM 312. Techniques employed to manage health data using computers.


333: Introduction to Epidemiology and Applied Statistics in Health Care. 0-3-3. Concepts of epidemiology; biostatistics, vital statistics; data collection and presentation; study designs as related to health care organizations and their function.

417: Healthcare Research. 0-3-3. Preq., HIM 430 and Coreq. QA 233. An introduction to the application of the scientific method and research design to health information management.

418: Healthcare Research Laboratory. 3-0-1. Preq. or Coreq., HIM 417. Practice in abstracting, medical information from healthcare records, designing data collection instruments, statistical analysis, and basic research methods used for health services and clinical research.

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**HISTORY (HIST)**

**HIST 101 and 102 are normally regarded as prerequisites for advanced non-American history courses. HIST 201 and 202 are normally regarded as prerequisites for advanced American history courses. Exceptions can be made with permission of the department head.**

101: World History to 1500. 0-3-3. A survey of civilization of the world to 1500. Major emphasis on Western Civilization. Statewide Transfer Agreement Course.*

102: World History since 1500. 0-3-3. A survey of civilization of the world since 1500. Major emphasis on Western Civilizations. Statewide Transfer Agreement Course*. (IER)

201: History of the United States, 1492-1877. 0-3-3. A survey of American history from discovery through Reconstruction. Statewide Transfer Agreement Course*. (IER)

202: History of the United States, 1877 to the Present. 0-3-3. A survey of American history from Reconstruction to the present. Statewide Transfer Agreement Course*

333: History of Rome. 0-3-3. A survey of the political, economic, social, and cultural history of Rome from earliest beginnings through the fifth century AD.

360: History of Louisiana. 0-3-3. A study of Louisiana history from early explorations to the present.

402: History of American Foreign Policy. 0-3-3. A study of the development and expansion of American foreign policy from colonial beginnings to the present. (G) (IER)

403: History of England to 1688. 0-3-3. A study of the development of the English people from the earliest times to the accession of William and Mary. (G)

404: History of England since 1688. 0-3-3. A survey of English political, social, and economic institutions and policies in the eighteenth, nineteenth, and twentieth centuries. (G) (IER)

408: Hitler's Germany. 0-3-3. A study of German history since 1862 with special emphasis on the rise and impact of Adolph Hitler and National Socialism. (G) (IER)

410: History of Modern Russia. 0-3-3. A survey of Russian history with special emphasis on twentieth century developments. (G) (IER)

413: Medieval Europe. 0-3-3. A survey of Europe from the decline of Rome to the advent of the Renaissance. (G)

414: Renaissance and Reformation. 0-3-3. A study of the political, economic, and cultural evolution of Europe from 1300 to 1648. (G)

415: History of the Christian Church. 0-3-3. A study of the rise and expansion of the Christian Church and its enormous influence on world history. (G)

418: Europe in the Era of the French Revolution and Napoleon. 0-3-3. A study of early modern Europe during the transition from the aristocratic era of the Old Regime to the Age of Revolutions. (G)

419: Nineteenth Century Europe. 0-3-3. A survey of political, economic, and cultural developments in Europe from the defeat of Napoleon I to the outbreak of World War I. (G)

420: Twentieth Century Europe. 0-3-3. A survey of political, economic, and cultural developments in Europe since the outbreak of World War I. (G) (IER)

423: The Civil War and Reconstruction. 0-3-3. A study of American history from the beginning of the Civil War to 1877. (G) (IER)

430: History of the Ancient Near East. 0-3-3. A survey of the civilizations of the Near East from earliest beginnings to 330 B. C. (G)

431: History of Greece. 0-3-3-3. A political, economic, social, and cultural study of Greek history from earliest beginnings through the Hellenistic era. (G)

432: The Roman Republic. 0-3-3-3. A study of the political, cultural, economic, and social history of Rome from earliest beginnings to the end of the Republic. (G)

433: The Roman Empire. 0-3-3-3. A study of the political, cultural, economic, and social history of Rome during the period of the Empire. (G)

436: History of the Modern Near East. 0-3-3-3. A history of the Arabic world from the fifteenth century to the present. (G) (IER)

440: History of Latin America to 1824. 0-3-3. A survey of Latin American history from European and Indian backgrounds to 1824. (G)
441: History of Latin America since 1824. 0-3-3. A survey of political, economic and social developments in Latin America since 1824. (G) (IER)

442: History of Mexico. 0-3-3. A survey of the political, economic, and social evolution of the Mexican nation from its Indian origins to the present. (G) (IER)

444: History of Central America and the Caribbean. 0-3-3. The history of Central America and the islands of the Caribbean from 1492 to the present, with emphasis on the historical roots of contemporary problems. (G) (IER)

447: History of China. 0-3-3. Traces the development of Chinese civilization from its earliest origins to the present. (IER)

450: History of the Old South. 0-3-3. A study of the political, economic, and social development of the antebellum South. (G)

451: History of the New South. 0-3-3. A survey of the major topics of the history of the American South from Reconstruction to the present day. (G)

465: Early 20th Century America. 0-3-3. A study of the social, political and economic development of the United States from 1900 to the end of the New Deal. (G)

466: Contemporary America. 0-3-3. An examination of United States history from World War II. (G)

467: Vietnam, Watergate and After: America, 1960 to the Present. 0-3-3. An intensive study of United States history from the troubled 60's to the present. (G)

472: History of American Ideas. 0-3-3. A survey of the major forces and ideas that have shaped American history. (G)

474: The American Frontier. 0-3-3. A study of the American frontier from the colonial period to 1890, with special emphasis on social and economic growth. (G)

475: Women in History. 0-3-3. A study of women's contributions to history with special emphasis on the role of women in different eras and societies. (G)

478: African-American History. 0-3-3. A survey of how African Americans have contributed to US history and culture from 1500 to the present. (G)

480: History of Science. 0-3-3. Preq., advanced history courses and six hours of science. A descriptive survey of the history of science and its civilizational implications. (G)

483: The Intellectual and Cultural History of the Western World from the Hellenic Era to the End of the Middle Ages. 0-3-3. A survey of the philosophical, cultural, religious, scientific, artistic, and literary thought and achievement of western man from the Greeks to the beginning of the Renaissance. (G)

484: The Intellectual and Cultural History of the Western World in Modern Times. 0-3-3. A survey of the philosophical, cultural, religious, scientific, artistic, and literary thought and achievement of western man from the Renaissance to the present. (G)

486: Introduction to Public History. 0-3-3. Theoretical, practical, and career issues related to the practice of history in public venues, including museums, historical sites, and similar professional environments. (G)

490: Selected Topics in History. 0-3-3 (6). Readings, discussions, and lectures in an area of current interest in the discipline of history, with topic designated by instructor. May be repeated for credit as topic changes. (G)

495: Senior Seminar in History. 0-3-3 (6). Advanced consideration of the sources and methods of historical inquiry through in-depth group study of a specific topic, problem, or era. May be repeated for credit as topic changes. (G)

505: Introduction to Historical Research and Writing. 0-3-3. Lectures, readings, discussions, and practical exercises on the sources and methods of professional historical scholarship, with students producing papers based on original research.

506: Seminar in American History, to 1877. 0-3-3 (6). Intensive study of a restricted topic in American history, to 1877 (excluding the American Civil War), with topic designated by instructor. May be repeated for credit as topic changes.

507: Seminar in American History, Since 1877. 0-3-3 (6). Intensive study of a restricted topic in American history, since 1877, with topic designated by instructor. May be repeated for credit as topic changes.

510: Independent Study and Research. 3 hours credit. Independent reading and research in selected history topics.

515: Seminar in Louisiana History. 0-3-3. Selected reading and research in Louisiana History, with particular emphasis on the twentieth century.

516: Seminar in Southern History, to 1860. 0-3-3 (6). Intensive study of a restricted topic in the history of the American South, to 1860, with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ Tech.

517: Seminar on the American Civil War. 0-3-3. Lectures, readings, discussion, and research on the history of the American Civil War. Collaborative: transmission originates @ ULM.

518: Seminar in Southern History, Since 1860. 0-3-3 (6). Intensive study of a restricted topic in the history of the American South, since 1860 (excluding the American Civil War), with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ ULM.

528: Seminar on American Foreign Relations. 0-3-3 (6). Intensive study of a restricted topic in the diplomatic history of the United States, with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ Tech.

530: Seminar in Ancient History. 0-3-3. Selected reading and research topics in Ancient History.

535: Seminar in Medieval History. 0-3-3. Selected reading and research topics in Medieval History.

540: Recent European History. 0-3-3. An intensive study of a restricted subject in recent history (to be chosen by the instructor), with an introduction to scholarly research in this field.

543: Seminar in Latin American History. 0-3-3. Lectures, reading and research on selected topic in Latin American history.

545: Seminar in Near East History. 3 hours credit. Independent study, research, and writing in Near East history, with an introduction to scholarly research in this field.

548: Seminar in East Asian History. 0-3-3. Selected reading and research topics in East Asian History.

551: European Traditions, to 1650. 0-3-3 (6). Intensive study of a topic in the history of Western civilization and culture, with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ Tech.

552: European Traditions, Since 1650. 0-3-3 (6). Intensive study of a topic in the history of Western civilization and culture, with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ ULM.

580: Seminar in the History of Science & Technology. 0-3-3 (6). Intensive study of a topic in the history of science and technology, with topic designated by the instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ Tech.

595: Current Problems in History. 0-3-3 (6). Intensive study of an issue, question, topic, or debate of current interest in the historical profession. May be repeated for credit as topic changes.

**HONORS (HNRS)**

103: Foundations of Ancient Civilization. 0-3-3. Interdisciplinary study of major works of ancient Greek, Roman, and Old Testament civilization. HONORS students only. Satisfies ENGL 101, or 102, or HIST 101 as appropriate, depending on the instructor.

104: Foundations of Medieval and Renaissance Civilization. 0-3-3. Interdisciplinary study of major works of Medieval and Renaissance civilization. HONORS students only. Satisfies ENGL 101, or 102, or HIST 102 as appropriate, depending on the instructor.

203: Foundations of Modern Civilization. 0-3-3. Interdisciplinary study of major works of Modern civilization. HONORS students only. Satisfies ENGL 102, or 201, or HIST 102 as appropriate, depending on the instructor.

204: Foundations of American Civilization. 0-3-3. Interdisciplinary study of major works of American civilization. HONORS students only. Satisfies ENGL 102, or 202, or HIST 201 or 202 as appropriate, depending on the instructor.

**HUMAN ECOLOGY (HEC)**

Courses in the School of Human Ecology are also listed under: Family and Child Studies, Food and Nutrition, and Merchandising and Consumer Studies.


327: Professional Communication and Media Planning in Human Ecology. 6-1-3. Preq., SPCH 110 or consent of instructor. Application of
oral and written communication techniques and skills in promotion of products and services for a variety of publics.


405: Family and Consumer Sciences Methods. 0-3-3. An understanding of the family and consumer sciences education programs with emphasis on philosophy, principles and methods of teaching in family and consumer sciences areas. (G)

406: Special Problems in Human Ecology. 1-3 hours credit (12). Special offerings selected by student with approval of adviser. May be repeated for credit with Dean's permission. (G)


457: Issues in Professional Employment. 0-1-1. Preparation to assume professional roles in the field of human ecology. Designed to be taken one or two quarters prior to graduation.


477: Practica/Internship/Cooperative Education in Human Ecology. 1-6 hours credit (9). (Pass/Fail). On site, supervised, structured work experiences located within a 100-mile radius of Ruston. Application and supervision fee required.

478: Practica/Internship/Cooperative Education in Human Ecology. 1-6 hours credit (9). (Pass/Fail). On site, supervised, structured work experiences located within 101-200 mile radius of Ruston. Application and program fee required.

479: Practica/Internship/Cooperative Education in Human Ecology. 1-6 hours credit (9). (Pass/Fail). On site, supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and program fee required.

504: Methodology in Human Ecology Research. 0-3-3. Techniques and principles of design for experimental and educational research.

505: Family and Consumer Sciences, and Early Childhood Education Supervision. 0-3-3. The value of supervision with emphasis on responsibilities and techniques desirable for effective working relationships with student teachers.

506: Special Problems in Human Ecology. 1-3 hours credit (12). Preq. or Coreq., HEC 504. Supervised research of adviser approved topics. May be repeated for credit with Dean's permission.


546: Microcomputer Applications in Professional Practice. 0-3-3. Preq., one graduate-level statistics course, and MCS 246 or consent of instructor. Use of software programs in professional and research settings.

551: Research and Thesis in Human Ecology. (Pass/Fail). Preq., HEC 504 and a graduate level course in Statistics. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.


**INDEPENDENT STUDY (ISTY)**

401: National Student Exchange. 8-12 (36). (Pass/Fail) Preq., admission to National Student Exchange. Course taken in conjunction with students participating in National Student Exchange. Credits will be transferred back from host institution after exchange. May be used up to a total of 36 semester credit hours.

498: Readings and Research. 1-3 (6) hours credit. Preq., admission to Independent Study program. Departmental course for independent research and reading. Offered by each department in the College of Liberal Arts.

499: Readings and Research. 1-3 (6) hours credit. Preq., admission to Independent Study program. Departmental course for independent research and reading. Offered by each department in the College of Liberal Arts.

**INDUSTRIAL ENGINEERING (INEN)**

100: Introduction to Industrial Engineering. 3-0-1. Survey of topics to introduce the student to the profession, the program, and the curriculum.

101: Computers in Engineering. 0-3-3. Functional characteristics of computers and the Internet; overview of programming languages and systems; visual BASIC applications; analysis and solution of engineering problems.

300: Engineering Economics. 0-2-2. Economic analysis of engineering design alternatives; present, annual, and future worth; internal rate of return and benefit/cost analysis; depreciation and tax consequences; equipment replacement.


405: Industrial Scheduling. 0-3-3. Techniques for scheduling machines, jobs, personnel, and materials in industrial environment.


408: Manufacturing Facilities Planning. 0-3-3. Coreq., INEN 300. Detail planning for facilities location, product development, equipment and manpower requirements, production line analysis, assembly line balancing, lean manufacturing.


410: Manufacturing Systems Management. 0-3-3. Coreq., INEN 408. Operations planning and productivity enhancement techniques for efficient management of manufacturing systems. This course will emphasize capacity planning, materials management, inventory control and warehousing.

411: Industrial Engineering Design I. 0-2-2. Preq., INEN 405, 407, 408, 409. Open-ended design problem using industrial engineering skills including work measurement, human factors, quality control, facilities planning, plant layout, operations research, etc.


413: Industrial Robotics and Automated Manufacturing. 3-2-3. Background, structure, drive systems, effectors and the applications of robots in industrial systems.

424: Seminar. 0-1-1. Instruction and practice in conference-type discussions of technical and professional matters of interest to industrial engineers.


450: Special Problems. 1-3 hours credit. Selected topics of current interest in Industrial Engineering not covered in other courses.

490: Applications of Artificial Intelligence and Expert Systems in Mechanical and Industrial Engineering. 3-2-3. Introduction to artificial intelligence, expert systems and their applications in industrial, mechanical and manufacturing engineering systems. (G)

502: Operations Research. 0-3-3. Applications of linear programming to industrial systems, such as production and inventory control. Sensitivity analysis. Transportation and transshipment algorithms. Parametric linear programming. Convex and integer programming.

504: Systems Simulation. 0-3-3. The use of digital computer programs to simulate the operating characteristics of complex systems. Statistical considerations in sampling from a simulated process.


*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.


512: Reliability Engineering. 0-3-3. Application of statistical theory in engineering design, testing methods for determining reliability. Design of components and assemblies for reliability.

513: Inventory Control. 0-3-3. Analytical methods of determining reorder size and minimum points of various inventory system. Mathematical models with restrictions and quantity discount. Forecasting techniques and production smoothing.

514: Industrial Statistics. 0-3-3. Application of statistical techniques to industrial problems, relationships between experimental measurements using regression, correlation theories and analysis of variance models.


550: Special Problems. 1-4 hour(s) credit. Advanced problems in industrial engineering.

551: Research and Thesis in Industrial Engineering. (Pass/Fail). Preq., 12 semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.

555: Practicum. 0-3-3 (6). (Pass/Fail). Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of an engineering problem; technical literature survey required; development of engineering research literature.

557: Special Topics: Industrial Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of industrial engineering. May be repeated as topics change.

INTERIOR DESIGN (IDES)

250: Introduction to Interior Design. 0-2-2. Introductory examination of Interior Design with topical investigations into the process of design, design elements, lighting, color, surface treatments, and space planning.

316: History of Interiors. 0-3-3. Preq., ARCH 231. A historical survey of interior space from antiquity to the present with emphasis on architectural elements, furniture and finishes.

352: Interior Design I. 9-3-3. Studio problems in space planning and design of interior environments with emphasis on design methodology, materials, furnishing systems, and presentation.

353: Interior Design II. 9-0-3. Preq., IDES 352 and ARCH 474. Continuation of IDES 352. Studio problems in space planning and design of interior environments with emphasis on design methodology, materials, furnishing systems, and presentation.


355: Interior Design Theory & Issues I. 0-1-1. Preq., Junior standing. Examination and analysis of the formal, contextual, conceptual, and/or operational issues associated with the use of textiles in residential and commercial interiors.

356: Interior Design Theory & Issues II. 0-1-1. Preq., Junior standing. Examination and analysis of the formal, contextual, conceptual, and/or operational issues associated with the use of color in residential and commercial interiors.

357: Interior Design Theory & Issues III. 0-1-1. Examination and analysis of the formal, contextual, conceptual, and/or operational issues associated with the selection and application of lighting systems in residential and commercial interiors.

451: Furniture Design. 6-1-3. Original student furniture design concepts are developed through a coordinated study and analysis of function, anthropometric, structures, materials, construction, and industrial processes. (G)

452: Interior Design IV. 9-0-3. Preq., IDES 354. Examination of large scale commercial and/or residential interior projects with emphasis on the integration of interior environments and architectural envelopes through detail design and development.

453: Interior Design V. 9-0-3. Preq., IDES 452. Continued examination of large scale commercial and/or residential interior projects with emphasis on the integration of interior environments with materials and systems.

454: Interior Design VI. 9-0-3. Preq., IDES 453. Continued examination of large scale commercial and/or residential interior projects with emphasis on the integration of interior environments with materials and systems.

456: Professional Practices. 0-3-3. Preq., Junior standing. Preparation for entering the professional practice of interior design; includes office procedures, business ethics, contract documents, specifications, and market sources, etc.

500: Design Research Methods. 0-3-3. Preq., Graduate standing or consent of instructor. An introduction to research methods applicable to the execution of scholarly investigations in the discipline of interior design.


520: Interior Design Graduate Research. 6-1-3 (9). Preq., IDES 500. Guided research projects into various aspects of interior design.

530: Interior Design Graduate Seminar. 0-3-3 (9). Preq., Graduate standing. Reading and discussion of current topics associated with interior design, education research, or practice.

540: Graduate Interior Design Internship. 20-0-6 (18). Preq., Graduate standing and consent of graduate program coordinator. Supervised interior design experience emphasizing application of principles in a research, manufacturing, or practice setting.

550: Research & Thesis in Interior Design. 12-0-4 (12). Preq., IDES 500. Preparation, development, and execution of a well-designed thesis under the supervision of the student’s graduate committee.

560: Research & Project in Interior Design. 12-0-4 (8). Preq., IDES 500. Preparation, development and execution of a comprehensive design project under the supervision of the student’s graduate committee.

570: Graduate Design Exhibition. 12-0-4. Preq., IDES 560. Preparation and installation of an exhibition of a comprehensive design project or graduate design work.

JOURNALISM (JOUR)

101: News Writing. 0-3-3. May be taken with ENGL 101. Beginning course in news writing. Work on “leads” and other newspaper writing basics. Typing ability required.

102: News Writing. 0-3-3. Preq., JOUR 101. Involves principles of interviewing, advanced reporting and specialty writing such as police reporting, consumer reporting and coverage of public affairs.

222: Using the Internet for Research. 0-3-3. Use of the Internet as a means of conducting research, with particular emphasis on the World Wide Web. Discussion and practical application of Internet-based research techniques.

310: Copy Editing. 0-3-3. Preq., JOUR 101. Course dealing with methods of editing copy and the writing of headlines.

311: Advanced Copy Editing. 0-3-3. Preq., JOUR 310. Techniques of newspaper makeup and layout; includes writing headlines, editing wire copy, cropping and sizing photography, principles of makeup and dummying of pages.

320: Feature Writing. 0-3-3. Preq., JOUR 101, 102. Practical instruction in gathering material for “human interest” and feature articles of various types for magazines as well as newspapers.

330: Editorial Writing. 0-3-3. Preq., JOUR 101. Course in the study of fundamentals and practice in editorial writing. Course includes units on recent history and current events.

350: Practical Reporting. 6-0-2 (4). Open only to journalism majors or minors. Preq., JOUR 101, 102, 310, 320. Writing of articles for the university newspaper upon assignment or consultation with faculty supervisor. May be repeated for two additional semester hours’ credit.

353: General Newspaper Work. 6-0-2 (4). Open only to journalism majors or minors. Preq., JOUR 101, 102, 310, 320. Practical lab work on university newspaper. May be repeated for two additional semester hours credit.

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.
355: Practical Reporting. 6-0-2 (4). Open to majors and minors only. Preq., JOUR 101, 102, 310, 320. Practical lab work on "The Tech Talk." May be repeated for two additional semester hours credit.

360: Advertising. 0-3-3. Fundamental study of advertising principles, including information on major media.

375: People and Events. 0-3-3. Creative writing, as it applies to magazines and newspapers. A "how-to-get-published" primer, with oral and written critiques of work.

400: Media and the Law. 0-3-3. Preq., 9 hours of JOUR. Emphasis on legal rights, responsibilities related to the media, and the public's right to know. Media court cases to be considered.

420: Civic Journalism. 6-1-3. Introduction to concepts of engaging public in civic discussions and information flow using news media. Hands-on experience in news writing and data collection and analysis.

440: Media and Culture. 3-2-3. Impact of mass media on culture through familiarity with the principal issues concerning the media. May be repeated for credit.

450: Public Relations. 0-3-3. Comprehensive approach into diverse functions of the practitioner as a specialist, analyst and counselor relevant to public relations' role involving monitoring public opinion.

451: Advanced Practical Reporting. 6-0-3. Junior and senior majors only and by permission of instructor. Consists of practical news work in professional media, work ranging from basic news beat coverage to news writing.

LIBERAL ARTS (LBAR)

189: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.

194: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.

289: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.

294: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.

336: Integrated Music and Art Appreciation. 1-2-3. Designed to prepare teacher candidates to teach art and music within the regular curriculum and as an independent subject. For elementary education majors only.

389: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.

394: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.

435: Undergraduate Research. 1-3 hours credit (6). Introduction to methods of research. Preq., consent of instructor. Credit depends on nature and depth of problem assigned.

489: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.

494: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.

500: Orientation to Professional Practice. 0-3-3. This course will familiarize graduate majors with the principal issues concerning professional practice in their chosen fields of study.

503: Special Problems. 1-3 hours credit (6). Independent study. Topics arranged to meet the needs of the student.

551: Research and Thesis. (Pass/Fail). Preq., 12 semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.

585: Comprehensive Examination. No credit. (Pass/Fail). Graduate standing required. Required for students taking a comprehensive examination as part of their Plan of Study in the Master of Arts programs in English or History. May be repeated only once.

589: Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Liberal Arts.

594: Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Liberal Arts.

LIBRARY SCIENCE (LSCI)

LSCI courses numbered at the 300- and 400-level are open to juniors and seniors only.


210: Libraries and Librarianship. 0-3-3. Introductory survey of libraries and librarianship designed for students entering the profession.

401: School Library Administration. 0-3-3. Administration of the school library with emphasis on planning for effective use of library services and materials in cooperation with instructional staff. (G)

402: Acquisition and Organization of Library Materials. 0-3-3. Preq., LSCI 401 or consent of instructor. Basic principles of cataloging and classifying print and non-print materials. Study of Dewey Decimal Classification System. (G)

403: Introduction to Reference Materials and Service. 0-3-3. Selection, evaluation and use of basic reference works. Practice in solution of typical reference problems. Emphasis on school library as learning center. (G)

405: Books and Materials for the Young Adult. 0-3-3. Selection, evaluation, and source utilization of print and non-print materials meeting the needs of the young adult. Extensive reading of books for the young adult. (G)


440: Library Automation. 0-3-3. Preq., LSCI 210, 302 or consent of instructor. Planning and implementing automated library procedures using the most current technology. (G)

450: Literature for Children. 0-3-3. Designed to relate understanding of child development to knowing and using print and non-print materials with children. Practical experience in story-telling and creative drama. (G)

451: Workshop in School Librarianship. 0-3-3 (6). Preq., professional school experience and consent of instructor. An in-depth study of school library learning center programs. May be repeated for credit when topics vary. (G)

LOUISIANA EDUCATION CONSORTIUM (LEC)

700: Introduction to Doctoral Research Design. 0-3-3. This course is designed to extend the student's knowledge of and expertise in areas of research design, methodology, and statistical processing of research data.

701: Utilizing Technology for Statistical Analysis in Education. 0-3-3. This course surveys procedures for using the computer in text editing, data management, and statistical processing of research data.

702: Evaluation Theory and Practice. 0-3-3. This course investigates the theories and practices associated with performance evaluation, focusing on individual, instrument, and program evaluation and the decision-making processes associated with each.

703: Qualitative Research in Education. 0-3-3. This course examines theories and methods of qualitative educational research, including ethnography, case studies, interview studies, and document analysis.

704: Sociocultural Issues in Education. 0-3-3. This course examines and analyzes sociocultural issues relating to the delivery of educational services to children in diverse school districts as well as the educational systems. (G)

705: Problem Solving and Decision-Making Processes. 0-3-3. Applied strategies and techniques involved in problem-solving behaviors are presented. Models of decision-making are explored with emphasis on methods and processes in decision-making.

706: Interpersonal Communication and Conflict Resolution. 0-3-3. Methods and styles of positive interpersonal communication and conflict resolution utilized by administrators and faculty are presented.

707: Curriculum Theory and Design. 0-3-3. This course focuses on school curriculum theory, design, revision, reform and critical issues.

708: Models of Teaching; Theories and Application. 0-3-3. Preq., LEC 707 or concurrent enrollment. This course builds the requisite knowledge and skills for selecting and implementing various teaching models congruent with specific teaching and learning strategies.

709: Research on Effective Teaching and Learning. 0-3-3. This course examines research-based theories and practices of teaching and learning, including diagnosing student needs and selecting appropriate learning strategies.

710: Foundations and Procedures for Professional Development. 0-3-3. This course focuses on analysis of the professional environment with emphasis on procedural strategies for professional development as evidenced by teaching, service, and research.

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.
711: Advanced Theory and Research in Educational Leadership. 0-3-3. Conceptual models used to define and explain learning organizations and the investigation of leadership roles, strategies, and methods.

712: Advanced Principles of Organization and Administration of Schools. 0-3-3. Organization and administration of schools, including fundamental concepts of organization, administration, and management are explored.

713: Foundations of Human Resource Development. 0-3-3. Theories of human resource development and exemplary models are identified and analyzed. Utilization of human resource information system technology is included.

714: Policy Analysis and Power Structure. 0-3-3. Educational policy processes in school administration and supervision, authority and responsibility, public policy, power structure, school boards, principalships, and superintendent roles are presented.

715: Advanced Content Methodology and Techniques. 0-3-3. This course analyzes and evaluates content-specific methods, techniques, and trends for early childhood, elementary, middle and secondary education.

716: Problems and Issues in Curriculum and Instruction. 0-3-3. This course analyzes and evaluates current curriculum concepts and designs as well as major trends in curriculum and instruction for K - 12 settings.

717: Grants Planning and Management. 0-3-3. Strategies are presented to identify relevant funding sources at the local, regional, and national levels and to prepare, submit, and manage effective proposals.

718: Principles and Practices in Instructional Supervision. 0-3-3. Strategies and techniques of supervising instruction are presented and reviewed. Models of supervising instructional programs are analyzed, interpreted, and evaluated.

750: LEC Cognate/Elective. 1-6 hours credit. Course number used to register and pay fees for cognates and approved electives, which are not listed in the respective course databases of LEC member institutions. Course number is replaced at the end of the enrollment period by actual cognates/electives titles.

776: Doctoral Internship Seminar. 0-3-3. This seminar is designed to enable students to demonstrate and apply knowledge bases and dispositions acquired/defined in the other program components and courses and to share their internship experiences with other students.

777: Internship. 3-6 hours credit (Pass/Fail). This course is a supervised on-site educational experience in curriculum, instruction, supervision, or administration.

788: Research Design Seminar. 0-3-3 (6). This course is a research seminar concentrating on the selection and utilization of qualitative and quantitative field-based research designs.

799: Dissertation. 3 hours credit (12). (Pass/Fail).

**MANAGEMENT (MGMT)**

201: Supervisory Techniques. 0-3-3. Basic supervision of small employee groups including employee hiring and dismissal, planning and organizing work assignments, evaluating performance, necessary records, and legal aspects.

305: Human Resources Management for Entrepreneurs. 0-3-3. Preq., BLAW 225. Not open to Management majors. Examines the unique challenges facing entrepreneurs with regard to recruiting and managing employees, including issues in personnel law.

310: Management of Organizations. 0-3-3. Preq., junior standing. Introduction to fundamental principles of management practice with a particular emphasis on developing an understanding of human behavior in organizations.

333: Operations Management. 0-3-3. Preq., MGMT 310 and QA 233. Concepts and strategies concerning the management of production and operations processes in manufacturing and service organizations; capacity; quality and inventory management; planning and control systems.

340: Small Business Management and Entrepreneurship. 0-3-3. Organizing and operating the small business, with special attention to personal qualifications, capital requirements, location, sources of assistance. MGMT 350 at GSU.

400: Entrepreneurship/New Venture Creation. 0-3-3. A study of the entrepreneur's role in business, including an introduction to the process of developing an idea into a feasible business plan.

401: Internship in Management I. 3 hours credit. (Pass/Fail) Preq., consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

402: Internship in Management II. 3 hours credit. (Pass/Fail) Preq., consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

419: Collective Bargaining. 0-3-3. Preq., ECON 202 or 215, and MGMT 470. History of American labor union movement, collective bargaining, labor-management problems, and government and labor relations. Considerable emphasis is given to case studies. MGMT 320 at GSU. (G)

447: Personnel Law. 0-3-3. Preq., MGMT 470. A survey of landmark cases involving the labor movement, federal and state wage and hour laws, industrial relations and current issues in personnel law. (G)

460: Purchasing and Materials Controls. 0-3-3. Preq., MKTG 300. Principles of procurement and analysis of purchasing problems, with emphasis on quality and quantity control, pricing policy inspection, and standards of performance. (G)

470: Personnel Management. 0-3-3. Preq., MGMT 310. A study of the functions and procedures in personnel management with emphasis on the procurement, development, maintenance and utilization of the work force. (G)

472: Compensation Systems. 0-3-3. Preq., MGMT 470. Design of total compensation systems with emphasis on compensation policies, programs, and practices including job analysis, position descriptions, job evaluation and job design.

475: Industrial Management. 0-3-3. Preq., MGMT 333. Management principles as applied to industrial production with emphasis on manufacturing strategy, just in time, quality control, scheduling, plant layout, and supplier relations. (G)

476: Systems and Operations Management. 0-3-3. Preq., MGMT 333. Advanced studies and problems in the planning, management, and control of industrial operations. Scheduling, capacity, and shop floor control are emphasized. (G)

477: Supply Chain Management. 0-3-3. Preq., MGMT 333. The management of the supply chain from product/process design, procurement, and manufacturing to final delivery to the consumer using the SAP information system.

478: Seminar in Personnel and Industrial Relations. 0-3-3. Preq., MGMT 470. Readings, problems and cases in human resource management. Analysis of current problems and future prospects are emphasized. (G)

485: International Business Management. 0-3-3. Preq., MGMT 310. Readings and cases in international business: governmental activities, regionalism, market opportunities, structure of international companies, company intelligence, human relations, operating policies, procedures and problems. (G) (IER)

510: Contemporary Management. 0-3-3. An analysis of management principles, functions, and practices with a particular emphasis on the application of theory to contemporary management issues and problems.

537: Human Resources Management. 0-3-3. Preq., MGMT 510 or consent of instructor. An advanced course in human resource management with an emphasis on personnel functions, within the context of the strategy, structure, and environment of contemporary organizations.

539: Organization Theory. 0-3-3. Preq., MGMT 510 or consent of instructor. A macro approach to the study of complex organization emphasizing current research findings.

544: Advanced Production and Operations Management. 0-3-3. Preq., MGMT 510 or consent of instructor. An in-depth analysis of production/operations concepts, methods, and techniques from a systems perspective.

550: Directed Study in Management. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of management.

560: Materials Management. 0-3-3. Preq., MGMT 510 or consent of instructor. Basic concepts of the materials management function including quality management, MRP II, scheduling, inventory management, purchasing, materials handling, JIT, and manufacturing strategy.

571: Organizational Behavior. 0-3-3. Preq., MGMT 510 or consent of instructor. A seminar with emphasis on theories and concepts of the behavioral sciences relevant to the internal operations of the organization.

595: Administrative Policy. 0-3-3. Preq., ACCT 505, CIS 515, ECON 510, FINC 515, MGMT 510, MKTG 530, QA 525. A synthesis of the material covered in the courses required for the MBA. Specific problems and cases are used to develop executive decision-making.


*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at [http://www.regents.state.la.us](http://www.regents.state.la.us) and the school you are transferring to for additional information.*
602: Research Methods II. 0-3-3. Preq., QA 610 and MGMT 601 or MKTG 601. A course designed to introduce the student to the collection, analysis, and interpretation of survey research data with an emphasis on the application of multivariate statistical techniques.

610: Current Research Issues in Management. 0-3-3. A seminar emphasizing the nature of theory and theory development and the analysis of current theoretical and empirical literature within the field of management.

615: Seminar in Behavioral Research Methodology. 0-3-3. May repeat one time for credit. Analysis and intensive study of research and research methodology utilized in the behavioral sciences. The method of science as applied to management is emphasized.

620: Doctoral Seminar in Research. 0-3-3 (9). May be repeated twice for credit. Research on individual topics. Doctoral students work with faculty to develop research topics suitable for publication and presentation.

629: Organization Theory. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. A macro approach to the study of complex organization emphasizing current research findings. Credit will not be given for MGMT 629 if credit is given for MGMT 539.

637: Human Resources Management. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. An advanced course in human resource management with an emphasis on personnel functions, within the context of the strategy, structure, and environment of contemporary organizations. Credit will not be given for MGMT 637 if credit is given for MGMT 537.

639: Seminar in Strategy & Organizational Theory. 0-3-3. Preq., MGMT 510 or consent of instructor. A doctoral seminar focusing on strategy and organization theory with emphasis on theoretical and empirical research and its application.

644: Advanced Production and Operations Management. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. An in-depth analysis of production/operations concepts, methods, and techniques from a systems perspective. Credit will not be given for MGMT 644 if credit is given for MGMT 544.

645: Evolution of Management Thought. 0-3-3. Preq., MGMT 510 or consent of instructor. Seminar with emphasis on important contributions to modern management thought as evidenced in the writings of major contributors.

650: Directed Study in Management. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of management.

660: Materials Management. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. Basic concepts of the materials management function including quality management, MRP II, scheduling, inventory management, purchasing, materials handling, JIT, and production management. Credit will not be given for MGMT 660 if credit is given for MGMT 560.

671: Organizational Behavior. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. A seminar with emphasis on theories and concepts of the behavioral sciences relevant to the internal operations of the organization. Credit will not be given for MGMT 671 if credit is given for MGMT 571.

680: Seminar in Venture Assessment and Management. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. An in-depth seminar applying the tools of analysis from functional business areas to the problems of proposed and existing firms utilizing actual cases. Credit will not be given for MGMT 680 if credit is given for MGMT 580.

685: Comprehensive Exam in Management. No credit. (Pass/Fail). Doctoral students required. Required for all business administration doctoral students seeking to take the comprehensive exam in management. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in management. Requires consent of graduate director.

300: Marketing Principles and Policies. 0-3-3. Preq., ECON 202 or 215 and junior standing. Marketing functions; institutions; policies and strategies with their business, economic, and social implications.

307: Salesmanship. 0-3-3. Preq., MKTG 300. A study of the selling process with emphasis on the economic aspects of salesmanship and the role of the salesmen in buyer-seller relationships.

320: Consumer Behavior. 0-3-3. Preq., MKTG 300. A study of the consumer decision process and the factors shaping the marketing environment.

401: Internship in Marketing I. 3 hours credit. (Pass/Fail) Preq., consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

402: Internship in Marketing II. 3 hours credit. (Pass/Fail) Preq., consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.

420: Business Advertising. 0-3-3. Preq., MKTG 300. A study of the analysis of principles of successful advertising enabling the student to appraise their effectiveness as marketing tools and their social and economic significance. (G)

425: Sales Management. 0-3-3. Preq., MKTG 307 or consent of instructor. Relation of sales department to other departments; types of sales organizations, management of sales force; market analysis; price policies, sales budgeting, and sales control.

435: Retailing Management. 0-3-3. Preq., MKTG 300 and senior standing. Merchandise distribution by retail organization; emphasis on retailing in the distributive system and problems of management and control. (G)

473: Marketing Administration. 0-3-3. Preq., MKTG 320 and MKTG 307, 420, 435, 482, or 485: and senior standing. An in-depth analysis and use of marketing principles to construct marketing plans and decisions for the current and future environment.

482: Marketing Research. 0-3-3. Preq., MKTG 300, QA 233 and senior standing. A consideration of marketing research as a management tool; application of research techniques to various marketing problems. (G)

485: International Marketing. 0-3-3. Preq., MKTG 300 or consent of instructor. International marketing opportunities and principles; marketing tools as a means of adapting the individual domestic business firm and its marketing methods to the international environment. (G) (IER)

530: Marketing Management. 0-3-3. A course to introduce the student to the role of the marketing manager in the development and implementation of strategies in the areas of products, pricing, channels, and promotion.

533: Advanced Marketing Research. 0-3-3. Preq., MKTG 530 or consent of instructor. An in-depth study of research philosophy, theory, objectives, techniques, and problems as applied to marketing.

537: Seminar in Buyer Behavior. 0-3-3. Preq., MKTG 530 or consent of instructor. An in-depth examination of the conceptual and theoretical foundations of consumer and industrial buyer behavior.

550: Directed Study in Marketing. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of marketing.

600: Survey of Marketing and Strategy. 0-3-3. Preq., MKTG 530 or consent of instructor. Examination of the marketing literature examining theoretical and empirical research including promotion, buyer behavior, distribution, ethics, global marketing, pricing, product development, and marketing strategy.


602: Advanced Topics in Marketing Management. 0-3-3. Preq., QA 610 and MKTG 601 or MKTG 601. A course designed to introduce the student to the collection, analysis, and interpretation of survey research data with an emphasis on the application of multivariate statistical techniques.

610: Seminar in Marketing Management. 0-3-3. Preq., MKTG 530 or equivalent. A survey of two of the four elements of the marketing mix (price, product, promotion, and distribution). An emphasis is placed on major topics of managerial and research interest.

615: Seminar in Marketing. 0-3-3 (6). May be repeated one time for credit. An examination of concepts and research findings related to selected topics in marketing. Presentation and critical evaluation of reports from related disciplines.

620: Advanced Topics in Marketing Management. 0-3-3. Preq., MKTG 530 or equivalent. A survey of two of the four elements of the marketing mix (place, price, product, and promotion). An emphasis is placed on major topics of managerial and research interest.

637: Seminar in Buyer Behavior. 0-3-3. Preq., MKTG 530 or consent of instructor. Requires Doctoral standing. May require additional class meetings. An in-depth examination of the conceptual and theoretical

MARKETING (MKTG)

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.
foundations of consumer and industrial buyer behavior. Credit will not be given for MKTG 637 if credit is given for MKTG 537.

640: Marketing Theory. 0-3-3. Preq., MKTG 530 or equivalent. A survey of the philosophy of science and the evolution of marketing ideas, concepts, and theories. The influence and contribution of individuals to marketing concepts are emphasized.

650: Directed Study in Marketing. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of marketing.

685: Comprehensive Exam in Marketing. No credit. (Pass/Fail). Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in marketing. Successful completion of a prerequisite test is required; for those seeking a primary field or examined minor in marketing. Requires consent of graduate director.

**MATH**

### MATH100B: College Algebra
0-5-5. Preq., Mathematics ACT score between 18 and 21 inclusive, or Mathematics SAT score between 430 and 510 inclusive, or successful completion of MATH 099. MATH 100B-C covers the same material as MATH 101 and includes additional supplementary review material. Credit will not be given for MATH 100B-C if credit is given for MATH 101. Statewide Transfer Agreement Course.

### MATH100C:
0-3-3. Radical expressions; rational exponents; complex numbers; quadratic, absolute value, rational equations; systems of linear equations; inequalities; functions; conics; graphs; inverse, exponential, logarithmic functions; applications. Concurrent enrollment in the corresponding section of MATH 100B is required. Statewide Transfer Agreement Course.

### MATH220:
0-3-3. Functions, graphs, polynomial functions; trigonometric functions, exponential and logarithmic functions and equations; inverse functions; introduction to analytic geometry; limits; derivatives; continuity. Credit will not be given for MATH 220 if credit is given for MATH 222 or 240.

### MATH222:
0-3-3. Preq., MATH 101 and MATH 112 or Placement by Exam. Functions and graphs, the derivative, the indefinite integral and the definite integral; applications as applied to business and economics. Credit will not be given for MATH 222 if credit is given for MATH 220 or 240.

### MATH224:
0-3-3. Preq., MATH 101 and MATH 112 or Placement by Exam. Examination of functions, derivatives, applications of derivatives, indefinite integrals, application of definite integrals. Credit will not be given for MATH 224 if credit is given for MATH 220 or 240.

### MATH225:
0-3-3. Preq., MATH 101 and MATH 112 or Placement by Exam. Functions and graphs, the derivative, the indefinite integral and the definite integral; applications as applied to business and economics. Credit will not be given for MATH 225 if credit is given for MATH 220 or 240.

### MATH240:
0-3-3. Preq., MATH 101 and MATH 112. Differential equations. First order equations (homogenous and inhomogenous). Credit will not be given for MATH 240 if credit is given for MATH 220 or 222.

### MATH251:
0-3-3. Preq., MATH 241. Anti-differentiation, definite integrals, techniques of integration, areas and volumes, numerical integration, improper integrals, separable differential equations and linear constant coefficient differential equations (homogenous and inhomogenous). Credit will not be given for MATH 242 if credit is given for MATH 220 or 222.

### MATH252:

### MATH253:

### MATH254:

### MATH263:
0-3-3. Preq., MATH 243. Sets, relations, functions, equations, inequalities, proofs, development of the integers and rational numbers, evaluation of experimental programs in mathematics.

### MATH264:
0-3-3. Preq., MATH 244. Matrices, systems of linear equations, vectors, vector spaces, linear transformations, eigenvalues and eigenvectors.

### MATH271:
0-3-3. Preq., MATH 242. Logic, sets, functions, finite and infinite sets, permutations and combinations.

### MATH272:
0-3-3. Preq., MATH 243 and knowledge of FORTRAN. Introduction to numerical techniques in finding roots of equations, solving systems of equations, approximating functions, derivatives and integrals.

### MATH273:
0-3-3. Preq., MATH 307. Fundamental set concepts, groups, rings, integral domains, fields, polynomials.
340: Introduction to Real Analysis. 0-3-3. Preq., MATH 244 and MATH 311 or 307. A rigorous introduction to the calculus of functions of one real variable.

401: College Geometry. 0-3-3. Preq., MATH 113 or equivalent, and MATH 243. Elementary systems and basic laws of reasoning, axiomatic geometry, geometric transformations, selected Euclidean geometry, non-Euclidean and projective geometries. (G)

405: Linear Algebra. 0-3-3. Preq., MATH 308. Study of linear systems, matrices, and algebra of matrices, determinants, vector spaces and subspaces, linear transformations and representations by matrices. (G)

407: Partial Differential Equations. 0-3-3. Preq., MATH 245. Solution of linear first order equations. Formation and solution of second order problems of parabolic, elliptic, and hyperbolic type. (G)


416: Abstract Algebra. 0-3-3. Preq., MATH 318. Number theory, equivalences, and congruences, groups, ideals. (G)

435: Introduction to Graph Theory. 0-3-3. Preq., MATH 307, 311, or 318. Fundamental concepts of undirected and directed graphs, trees, connectivity, planarity, colorability, network flows, Hamiltonian and Eulerian graphs, matching theory and applications. (G)

445: Theory of Functions of Complex Variables. 0-3-3. Preq., MATH 244. Complex numbers, analytic functions, elementary functions, mapping elementary functions, integrals, power series, residues, poles, conformal mappings, applications of conformal mappings. (G)

450: Ordinary Differential Equations. 0-3-3. Preq., MATH 245 and 340. First-order equations, second-order linear equations, general linear equations and systems, existence and uniqueness theorems, plane autonomous systems. (G)

460: Number Theory. 0-3-3. Preq., MATH 318. Divisibility properties of integers, prime numbers, congruences, number theoretic functions. (G)

470: Introduction to Topology. 0-3-3. Preq., MATH 244. Introduction of concepts of metric spaces, countability axioms, separation axioms, connectedness, compactness, product spaces, continuous mappings and homeomorphisms, homotopy, quotient spaces. (G)


490: Topics in Mathematics. 0-3-3 (6). Various topics in the field of Mathematics. May be repeated for credit. (G)


535: Graph Theory. 0-3-3. Preq., MATH 435 or consent of instructor. Fundamental concepts of graph theory, connectivity and traversability, algebraic and topological methods, graph minors, extremal graph theory, planarity, colorability, and random graphs.

551: Research and Thesis in Mathematics. (Pass/Fail). Preq., 12 semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.

555: Practicum. 0-3-3 (3). (Pass/Fail). Preq., 12 semester hours of graduate work. Solution of a problem in mathematics; appropriate literature survey; development of mathematical research techniques. Maximum credit allowed is 3 hours.


575: Numerical Solution for PDE II. 0-3-3. Preq., MATH 407, 414, 574. Finite difference schemes for elliptic PDEs, iterative methods, and introduction to finite element methods and multigrid methods.

584: Topics in Algebra. 0-3-3 (15). May be repeated for 3 hours credit each time.

586: Topics in Analysis. 0-3-3 (15). May be repeated for 3 hours credit each time.

587: Topics in Applied Mathematics. 0-3-3 (15). May be repeated for 3 hours credit each time.

588: Topics in Topology. 0-3-3 (15). May be repeated for 3 hours credit each time.

599: Graduate Training Seminar. 1-4 hours credit (15). Preq., Consent of instructor. Guided and/or directed study, readings, discussion, observation, and training in the teaching of college mathematics. (Pass/Fail)


**MECHANICAL ENGINEERING (MEEN)**

215: Engineering Materials Laboratory. 3-0-1. Preq., credit or registration in M Emm 201. A laboratory course studying the experimental behavior of engineering materials. Labs will include hardness testing, impact testing, tensile testing, and heat treating of materials.


351: Computer-Aided Modeling. 3-1-2. Preq., Cumulative GPA ≥ 2.0 on Math 240 through Math 244. Construction of virtual systems models using constructive solid geometry, swept volumes, and trimmed parametric surfaces with engineering applications.


361: Advanced Mechanics of Materials. 0-3-3. Preq., MEEN 351, M Emm 211, 312. Theories of stress and strain, failure criteria, energy methods, design for static strength, design for fatigue strength.

363: Dynamics of Machine Elements. 0-3-3. Preq., MEEN 351 and M Emm 312. Kinematics and kinetics of machine elements such as linkages, cams, and gear trains.


382: Basic Measurements. 3-1-2. Preq., ENGR 221, and cumulative GPA ≥ 2.0 on Math 240 through Math 244. Techniques and instruments for making and analyzing measurements in engineering.

400: Mechanical Engineering Seminar. 3-0-1. Preq., credit or registration in MEEN 480. Professionalism, ethics, and service for mechanical engineers.


434: Cryogenic Systems. 0-3-3. Preq., MEEN 334. Analysis and design of systems which produce, maintain, or utilize low temperatures; liquefaction systems; refrigeration systems; separation and purification systems; storage systems. (G)


436: Air Conditioning and Refrigeration. 0-3-3. Preq., MEEN 334 and 353, MEMT 313. Analysis and design of heating, ventilating, and air conditioning systems for residential, commercial, and industrial applications.

446: Advanced Fluid Mechanics. 3-2-3. Preq., MEMT 313 and MATH 245. Principles of viscous fluid flow including dimensional analysis and similarity, duct flows, boundary layer flow, turbomachinery, flow measurement and control, and design of fluid systems. (G)

448: Gas Dynamics. 0-3-3. Preq., MEEN 334 and MATH 245. Study of the fundamental laws applied to compressible fluid flow. Isentropic flow, normal and oblique shocks, Prandtl-Meyer, Fanno, Rayleigh flow, and supersonic flow. (G)

449: Introduction to Computational Fluid Dynamics. 0-3-3. Preq., MEEN 292 and MEMT 313. The fundamentals of computational fluid dynamics (CFD); review of numerical methods and fluid mechanics; application of numerical techniques for solution of sample fluid dynamics problems.

450: Special Problems. 1-4 hours credit. Preq., senior standing and consent of instructor. Topics selected will vary from term to term for the purpose of covering selected topics of current importance or special interest.


469: Prevention of Mechanical Failure. 0-3-3. Preq., MEEN 361. Analysis, prevention and prevention of failures in a structure or machine part during the design phase. (G)

475: Mechatronics. 4-2-3. Preq., MEEN 292, MATH 245. A study of the interface between controllers and physical systems; principles of electromagnetic design, digital and analog circuitry, actuation, sensing, embedded control, and real-time programming. (G)


478: Engineering Acoustics. 0-3-3. Preq., MATH 245. Analysis and design of systems for noise control, including vibration isolation, silencers, room acoustic treatment, and acoustic barriers. (G)

480: Capstone Design Project I. 3-0-1. Preq., MEEN 215, 321, INEN 300, ENGL 463 and credit or registration in MEEN 451 and 465. Open-ended, team-based engineering design project that draws on the student’s entire academic experience with emphasis on idea generation and conceptual design.

481: Capstone Design Project II. 3-0-1. Preq., MEEN 480. A continuation of MEEN 480 project with emphasis on detailed system design project.

482: Capstone Design Project III. 3-0-1. Preq., MEEN 481. A continuation of MEEN 481 project with an emphasis on prototype construction and testing.

486: Mechanical Engineering Laboratory. 3-0-1. Preq., MEEN 353, 361, 382, MEMT 313. Design and performance of laboratory experiments in mechanical engineering.

488: Solids Modeling in Engineering Design. 0-3-3. Preq., MEEN 351. Engineering design using 3-D graphics, constructive solid geometry, boundary representations, parametric surfaces, and data exchange standards. (G)


499: Technical Enrichment Course. 3-0-1. (6) Preq., consent of instructor. (Pass/Fail). May be repeated for a maximum of 6 hours of credit. Varying new technologies. Does not count toward graduation in Mechanical Engineering. Contact the department for more information.

531: Advanced Thermodynamics. 0-3-3. Fundamental laws of thermodynamics; entropy and entropy production; kinetic theory of gasses; statistical thermodynamics; quantum thermodynamics for various systems.


549: Computational Fluid Dynamics. 0-3-3. The fundamentals of computational fluid dynamics (CFD); review of numerical methods and fluid mechanics; application of numerical techniques for solution of sample fluid dynamics problems.

550: Special Problems. 1-4 semester hours. Advanced problems in mechanical engineering. The problems and projects will be treated by current methods of analysis and design.

551: Research and Thesis in Mechanical Engineering. (Pass/Fail). Preq., 12 semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.

553: Thermal Stresses. 0-3-3. Thermal stresses in structures; plane stress problems; thermal stresses in plates and shells; thermoelastic instability; thermal fatigue; creep and inelastic thermal stresses at high temperatures.

555: Practicum. 0-3-3 (6). (Pass/Fail). Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of an engineering problem; technical literature survey required; development of engineering research techniques.

557: Special Topics: Mechanical Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of mechanical engineering. May be repeated as topics change.


201: Engineering Materials. 0-2-2. Preq., ENGR 122, PHYS 201. A study of the basic principles which relate the internal structure of materials to their mechanical, physical, and electrical properties.


<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>202</td>
<td>Dynamics</td>
<td>0-2-2</td>
<td>Preq., ENGR 220 and PHYS 201. Kinematics and kinetics of particles and solid bodies in rectilinear, rotational and plane motion, energy methods, linear impulse and momentum.</td>
</tr>
<tr>
<td>411</td>
<td>Advanced Engineering Materials</td>
<td>0-3-3</td>
<td>Preq., MEMT 201 and MEEN 361. An introduction to modern engineering materials. Examination of newer materials such as high strength steels, polymers and composites.</td>
</tr>
<tr>
<td>508</td>
<td>Finite Element Analysis</td>
<td>0-3-3</td>
<td>Preq., MEMT 201 and MEEN 361. An introduction to modern engineering materials. Examination of newer materials such as high strength steels, polymers, composites, and high strength steels.</td>
</tr>
<tr>
<td>563</td>
<td>Theory of Elasticity</td>
<td>0-3-3</td>
<td>General equations of elasticity; plane stress and plane strain; torsion and flexure of bars; Hertz contact stresses.</td>
</tr>
<tr>
<td>564</td>
<td>Plates and Shells</td>
<td>0-3-3</td>
<td>Pure bending of plates; laterally-loaded plates; membrane theory of shells; bending of cylindrical and spherical shells.</td>
</tr>
<tr>
<td>565</td>
<td>Continuum Mechanics</td>
<td>0-3-3</td>
<td>Introductory treatment of the fundamental, unifying concepts of the mechanics of continua.</td>
</tr>
<tr>
<td>577</td>
<td>Advanced Strength of Materials</td>
<td>0-3-3</td>
<td>Energy methods, advanced bending theory; torsion, stress concentrations, failure theory and elastic stability.</td>
</tr>
<tr>
<td>588</td>
<td>Inelastic Deformation</td>
<td>0-3-3</td>
<td>Analytical and numerical modeling of inelastic deformation in metals, polymers and ceramics, including plasticity, creep, viscoelasticity, and viscoplasticity.</td>
</tr>
</tbody>
</table>

### MERCHANDISING AND CONSUMER STUDIES (MCS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>108</td>
<td>Professional Career Orientation</td>
<td>0-2-2</td>
<td>Structured experiences in career assessment and exploration, leadership, and communication in the professional arena. Includes a field study tour. Open to non-majors.</td>
</tr>
<tr>
<td>118</td>
<td>Pattern Application and Construction</td>
<td>0-1-3</td>
<td>Introduction to basic pattern making techniques, fit, and construction. Some emphasis on techniques, commercial patterns, and ready-to-wear construction.</td>
</tr>
<tr>
<td>146</td>
<td>Internet for Personal and Family Management</td>
<td>0-1-1</td>
<td>An introduction to the use of internet for personal and family activities.</td>
</tr>
<tr>
<td>219</td>
<td>Textiles I</td>
<td>0-3-3</td>
<td>Study of fiber properties and production of textiles.</td>
</tr>
<tr>
<td>238</td>
<td>Apparel Selection</td>
<td>0-3-3</td>
<td>Contemporary apparel needs of individuals and families with recognition of cultural, economic, and psychological factors.</td>
</tr>
<tr>
<td>246</td>
<td>Microcomputers in Personal and Family Management I</td>
<td>3-2-3</td>
<td>An introduction to the use of microcomputers for more effective management of personal and family related tasks.</td>
</tr>
<tr>
<td>256</td>
<td>Individual and Family Management</td>
<td>0-3-3</td>
<td>A systems approach to the management of personal and family resources.</td>
</tr>
<tr>
<td>258</td>
<td>Professional Selling Experience</td>
<td>0-5-1</td>
<td>Preq., MCS 108 or consent of instructor. Supervised professional selling experience with emphasis on customer satisfaction and service. Field experience with cooperating firms.</td>
</tr>
<tr>
<td>268</td>
<td>Apparel Design I</td>
<td>3-2-3</td>
<td>Preq., MCS 219. Application of principles related to the creation, fabrication and execution of apparel design.</td>
</tr>
<tr>
<td>308</td>
<td>Buying</td>
<td>0-3-3</td>
<td>Preq., MCS 258; Coreq., MCS 348. Buying function in retail organizations. Includes merchandising concepts essential for buyers.</td>
</tr>
<tr>
<td>338</td>
<td>Intermediate Apparel Construction</td>
<td>0-6-0</td>
<td>Preq., MCS 118 or consent of instructor. Emphasis on evaluation and use of advanced construction techniques including tailoring and couture methods.</td>
</tr>
<tr>
<td>348</td>
<td>Merchandising and Computer Management</td>
<td>1-2-2</td>
<td>Preq., MCS 246; Coreq., MCS 308 or consent of instructor. Procedures and task management for the retailer through computer application.</td>
</tr>
<tr>
<td>366</td>
<td>Consumer Issues</td>
<td>0-3-3</td>
<td>Preq., MCS 240 sellers/government and consumers including legislation, regulation and safety issues.</td>
</tr>
<tr>
<td>388</td>
<td>Event Planning and Promotion</td>
<td>3-2-3</td>
<td>Preq., HEC 327 and MCS 466. Study and application of principles of product promotion. Emphasis on coordination of customer targeting, communications, media presentation, and special events.</td>
</tr>
<tr>
<td>419</td>
<td>Textiles II</td>
<td>0-3-3</td>
<td>Preq., MCS 219 or consent of instructor. Study of textile products in relation to industry processes, end-use, product quality, and technology.</td>
</tr>
<tr>
<td>426</td>
<td>Trends in Housing</td>
<td>0-3-3</td>
<td>Social aspects of housing including zoning, government regulations, and purchase considerations. (G)</td>
</tr>
</tbody>
</table>

### MICRO SYSTEMS ENGINEERING (MSE)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>401</td>
<td>Microsystems Principles</td>
<td>0-3-3</td>
<td>Fundamentals of microsystems, emphasizing the basic principles, materials, fabrication, measurement, and applications of microsystems.</td>
</tr>
<tr>
<td>402</td>
<td>Microfabrication Principles</td>
<td>0-3-3</td>
<td>Preq., MSE 401. Fundamentals of microfabrication processes for the realization of microelectromechanical and microelectronic devices.</td>
</tr>
<tr>
<td>403</td>
<td>Microfabrication Applications and Device Fabrication</td>
<td>3-2-3</td>
<td>Preq., MSE 268 and 466 or consent of instructor. Promotion of products through visual merchandising techniques including display, store layout and design, and the fashion show.</td>
</tr>
<tr>
<td>404</td>
<td>Advanced Materials for Micro/Nano Devices and Systems</td>
<td>0-3-3</td>
<td>Preq., MSE 401. Fundamentals of advanced materials used for the realization of micro/nano devices and systems, emphasizing the properties and characteristics of various materials.</td>
</tr>
<tr>
<td>405</td>
<td>Nanotechnology Principles</td>
<td>0-3-3</td>
<td>Fundamentals of nanotechnology, emphasizing the basic principles, materials, fabrication, measurement, and applications of nanotechnology.</td>
</tr>
<tr>
<td>406</td>
<td>Micro/Nano Scale Materials Measurements and Analysis</td>
<td>0-3-3</td>
<td>Fundamentals of micro/nano scale materials measurements and analysis, based on modern techniques.</td>
</tr>
<tr>
<td>457</td>
<td>Special Topics: Micro Systems Engineering</td>
<td>0-3-3</td>
<td>9. The topic or topics will be selected by the instructor from the various sub-areas of micro systems engineering. May be repeated for a maximum of 9 credit hours with a change of course content.</td>
</tr>
<tr>
<td>501</td>
<td>Microsystems Principles</td>
<td>0-3-3</td>
<td>Fundamentals of microsystems, emphasizing the basic principles, materials, fabrication, measurement, and applications of microsystems.</td>
</tr>
<tr>
<td>504</td>
<td>Advanced Materials for Micro/Nano Devices and Systems</td>
<td>0-3-3</td>
<td>Preq., MSE 501. Fundamentals of advanced materials used for the realization of micro/nano devices and systems, emphasizing the properties and characteristics of various materials.</td>
</tr>
<tr>
<td>505</td>
<td>Nanotechnology Principles</td>
<td>0-3-3</td>
<td>Fundamentals of nanotechnology, emphasizing the basic principles, materials, fabrication, measurement, and applications of nanotechnology.</td>
</tr>
</tbody>
</table>

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at [http://www.regents.state.la.us/](http://www.regents.state.la.us/) and the school you are transferring to for additional information.*
506: Micro/Nano Scale Materials Measurements and Analysis. 0-3-3. Fundamentals of micro/nano scale materials measurements and analysis, based on modern techniques.

507: Advanced Microfabrication with Computer-Aided Design. 0-3-3. Prreq., MSE 503. Advanced microfabrication process development and integration with the aid of computer process modeling and simulation.


510: Microsystems Design, Fabrication, and Testing Laboratory. 8.5-1-3. Prereq., MSE 502, Coreq., MSE 503. The design, fabrication, and testing of a simple microsystem, leading to a detailed technical project report. This course is available to masters students in the Microsystems Engineering program only.

512: Biotechnology Principles. 0-3-3. Fundamentals of molecular biotechnology, emphasizing the basic principles, the tools and techniques employed, and the widespread applications of this technology.

557: Special Topics: Micro Systems Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of micro systems engineering. May be repeated for a maximum of 9 credit hours with a change of course content.


610: Microsystems Design with Computer-Aided Design. 0-3-3. Prreq., Coreq. MSE 509. Design and development of Microsystems with the aid of computer-based design and modeling tools.

### Molecular Sciences and Nanotechnology (MSNT)

502: Research Methods. 0-3-3. An introduction to basic methods used in scientific research, including formulation of problems, literature search, proposal preparation, and communication of research findings.

503: Topics in Molecular Sciences and Nanotechnology. 1-3 hours credit (6). Independent study. Topics and course policies to be established by instructor for each student. May be repeated for credit up to 6 semester hours with topic change.

504: Molecular Sciences and Nanotechnology Seminar. 0-1-1. Supervised organization and presentation of topics from peer-reviewed literature or student’s own research, as well as attendance at and recording of seminars given by others. Maximum credit applicable towards the degree is one semester hour.

505: Nanotechnology Principles. 0-3-3. Fundamentals of nanotechnology, emphasizing the basic principles, materials, fabrication, measurement, and applications of nanotechnology.

506: Nanofabrication by Self-Assembly. 0-3-3. Principles and techniques for self-assembly of films and structures on the nanometer scale. Topics covered will include Langmuir-Blodgett, nanolithography and nanodevices based on nanoscale, layer-by-layer self-assembly techniques, and electrochemical polymerizations.

510: Selected Topics in Molecular Sciences. 0-3-3 (6). Topic or topics will be selected by the instructor from the various scientific disciplines that fall under the umbrella of molecular sciences. May be repeated for credit up to 6 semester hours with topic change.

511: Selected Topics in Nanotechnology. 0-3-3 (6). The topic or topics will be selected so as to expose students to current research areas in nanotechnology. May be repeated for credit up to 6 semester hours with topic change.

521: Principles of Cell and Molecular Biology. 0-3-3. Principles of cell and molecular biology, including molecular structure and function, cellular processes, bioenergetics, and regulation of metabolism.

549: Practicum in Molecular Sciences and Nanotechnology. 0-3-3. (Pass/Fail). Prq., 12 semester hours of graduate work. Experimental or computational study of a relevant problem in one of molecular sciences and nanotechnology research areas.

551: Research and Thesis in Molecular Sciences and Nanotechnology. (Pass/Fail). Prq., 12 semester hours of graduate work. Registration in any quarter is for three semester hours credit or multiples thereof. Maximum credit applicable towards the degree is six semester hours.

### Music Applied, Private Lessons (MUPV)

Music Applied courses refer to private lessons taken in the appropriate studio in an area declared by the student. In order to be eligible to register for 400-level courses a student must pass an upper-division jury. This is usually done in the Spring of the Sophomore year. This rule applies only to music majors. Non-music majors may enroll at the 100 level according to the limitation of the applied instructor's schedule. All students must have the approval of the applied music instructor before registering for private lessons.

#### Minor Level

These courses are designed for students electing to minor in music, majors studying a secondary instrument, and non-music majors. Students register in the specific area or instrument as designated by the course number. Students minoring in music must also register for MUAP 100: General Recital concurrently with private study.

191: Applied Composition – Minor. 3-0-1.

#### Lower Division

These courses are designed for the music major studying privately at the lower division level whose declared major is in the specific area designated by the course number. The letter "A" is added to the end of the course number to indicate 1 hour of credit and the letter "B" indicates 2 hours of credit.

221: Applied Organ - Major. 1-2 semester hours.
253: Applied Cello - Major. 1-2 semester hours.
255: Applied Guitar - Major. 1-2 semester hours.
262: Applied Oboe - Major. 1-2 semester hours.

Includes evening recital and concert attendance as required by the respective private lesson studio.

102: Class Voice. 1-1-1. Group instruction in the techniques of the singing voice.

111: Class Piano I - Major. 3-0-1. Prq., Permission of instructor. Introduction to the piano for the music major. Students work on reading two clefs, basic piano technique, sightreading, and repertory.

112: Class Piano II - Major. 3-0-1. Prq., MUAP 111 or permission of instructor. Continuation of MUAP 111, with more fundamental playing skills. Students work on two octave scales, harmonization, sightreading, and repertory.

113: Class Piano III - Major. 3-0-1. Prq., MUAP 112 or permission of instructor. Continuation from MUAP 112. Students work on more advanced playing skills, improvisation, and score-reading.

233: Italian Diction. 1-1-1. Pronunciation of Italian art song.
243: German Diction. 1-1-1. Pronunciation of German art song (Lieder).

399: Undergraduate Recital. 1-0-0. Prq., Recital Committee approval. For all music majors, preparation and performance of a degree recital of not less than 25 minutes of music.

499: Undergraduate Recital. 1-0-0. Prq., Recital Committee approval. For Bachelor of Fine Arts in Music Performance degree candidates, preparation and performance of a degree recital of not less than 50 minutes of music.
263: Applied Bassoon - Major. 1-2 semester hours.
264: Applied Clarinet - Major. 1-2 semester hours.
275: Applied Tuba - Major. 1-2 semester hours.

Upper Division

These courses are designed for the music major studying privately at the upper division level whose declared major is in the specific area designated by the course number. Students must have passed the upper division exam to be eligible. The letter "A" is added to the end of the course number to indicate 1 hour of credit and the letter "B" indicates 2 hours of credit.

452: Applied Viola - Major. 1-2 semester hours.
453: Applied Cello - Major. 1-2 semester hours.
455: Applied Guitar - Major. 1-2 semester hours.
463: Applied Bassoon - Major. 1-2 semester hours.
475: Applied Tuba - Major. 1-2 semester hours.

MUSIC DIRECTED STUDIES (MUDS)

450: Directed Studies. 1-4 semester hours (6). Preq., consent of advisor. Selected study in an identified area in Music. Credit depends on the nature of problem and work accomplished. May be repeated for credit.
550: Directed Studies. 1-4 semester hours (6). Preq., consent of advisor. Selected study in an identified area in Music. Credit depends on the nature of the problem and work accomplished. May be repeated for credit.

MUSIC ENSEMBLE (MUEN)

Students of Freshman or Sophomore standing sign up for 200 level. Students who have achieved Junior or Senior level standing sign up for 400 level.
200/400: Chamber Ensemble. 1-0-1 (6). Instruction and performance in small instrumental or vocal ensembles.
234/434: Opera Workshop. 1-0-1 (3). A function study in opera performance including vocal, dramatic, and technical aspects of opera production.
251/451: Chamber Orchestra. 4-0-1 (6). Preq., audition. Instruction and performance in string ensemble.
260/460: Musical Stage Orchestra. 3-1-2 (8). Orchestral experience with repertoire and techniques of musical theatre.
261/461: Musical Stage Production. 3-1-2 (8). Practical study of theories, practices and techniques of musical stage production.
272/472: Fall Wind Ensemble. 1-0-1 (2). Preq., audition. Open to any major. Instruction and performance in concert band. Includes reading and study of selected works from the major standard band repertoire for participating music majors.
275/475: University Jazz Ensemble. 3-0-1 (6). Preq., audition. Performance and instruction in stage band ensemble covering a variety of jazz styles and genres.
276/476: Low Brass Ensemble. 3-0-1 (6). Preq., consent of instructor. Performance and instruction in low brass ensembles and literature.

MUSIC GENERAL (MUGN)

152: Beginning Guitar. 2-0-2 (6). Preq., consent of instructor. Instruction in beginning guitar techniques for the non-music major.
290: Music Appreciation. 0-3-3. Satisfies General Education Requirement for Fine Arts Appreciation. For non-music majors. Attempts to answer the question "What is Music?" by acquainting students with knowledge and appreciation of music from several cultures and eras. Statewide Transfer Agreement Course*.
400: Beginning Your Music Career. 0-3-3. Preq., consent of instructor. Course designed to prepare students for a career in music.

MUSIC HISTORY AND LITERATURE (MUHS)

101: Music Literature I. 0-2-1. A broad survey of music literature from the Middle Ages to the Early Baroque. Includes selected music of Native American peoples.
102: Music Literature II. 0-2-1. A broad survey of music literature from the Baroque through the Classical era.
103: Music Literature III. 0-2-1. A broad survey of music literature from the Romantic era to the present era. Includes selected world music.
301: Music History I. 0-2-2. Preq., MUTH 102 or permission of instructor. A survey of the specific periods of music and its literature, from antiquity through the Renaissance.
302: Music History II. 0-2-2. Preq., MUTH 102 or permission of instructor. Continuation from MUHS 301, from the Baroque and into the Classical era.
303: Music History III. 0-2-2. Preq., MUTH 102 or permission of instructor. Continuation from MUHS 302, from the Romantic to the present era. Includes music of sub-Saharan Africa and Indonesia.
306: Introduction to Non-Western Music. 0-2-2. Preq., MUHS 305 or permission of instructor. An introduction to the music and musical life of the world’s peoples by sampling and by synthesis.
307: Introduction to Jazz History. 0-2-2. Preq., MUHS 305 or permission of instructor. Cultivate in the music major an understanding of jazz music through a comprehensive study of major artists and styles from 1900 to the present.
410: Piano Literature. 0-3-3. A survey of piano literature from the Classic Period to the present including literature composed for earlier keyboard instruments.
430: Vocal Literature. 0-3-3. A survey of vocal literature covering a wide diversity of composers, styles, and historical periods through discussion and analysis of representative works including assignments in listening, performance, and reading.
431: Choral Literature. 0-2-2. A survey of choral literature covering a diversity of composers, styles, and historical periods through discussion and analysis of representative works.
432: Survey of Opera. 0-3-3. Preq., permission of instructor. Designed to cultivate in students an understanding and enjoyment of opera by surveying selected, significant operatic works through viewing and analysis.
433: Survey of American Music Theatre. 0-3-3. Preq., MUGN 290 or SPTH 290. Designed to increase the understanding and appreciation of the American Music Theatre genre through the study of musical theatre works, composers, lyricists, directors, and performers.

MUSIC PEDAGOGY (MUDP)

200: Teaching Techniques Middle School Band. 3-0-1. Teaching techniques for middle school band put into practice through hands on teaching with the A.E. Phillips Lab School Band.
300: Beginning Conducting. 1-1-1. Elementary methods, principles and practice of conducting.
301: Choral Conducting. 1-2-2. Preq., MUTH 201 and MUDP 300. Principles of interpretation and score reading with emphasis on choral conducting. Includes laboratory experience with the choral ensembles.

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302: Instrumental Conducting. 1-2-2. Preq., MUTH 201 and MUPD 300. Principles of interpretation and score reading with emphasis on instrumental conducting. Includes laboratory experience with the instrumental ensembles.


304: Marching Band Drill Design. 3-0-1. This course provides practical application in the elements of marching band show planning, design, and teaching.

311: Piano for Vocal Education. 2-0-2. Preq., students must have passed all parts of the piano proficiency exam and have the consent of the instructor. Experience in improvising, transposing and performing vocal accompaniments at the piano. These skills are required for vocal music education majors.

331: Vocal Methods. 1-1-1. Group instruction in the singing voice including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.

334: Elementary Teachers Appreciation/Methods. 0-3-3. Provides an understanding and appreciation of the elements of music.

351: String Methods. 2-0-1. Group instruction in strings including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.

352: Guitar Methods. 2-0-1. Group instruction in fretted instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.

361: Flute Methods. 2-0-1. Group instruction in flute including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.

362: Single Reed Methods. 2-0-1. Group instruction in single reed instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observations at the elementary and secondary levels.

363: Double Reed Methods. 2-0-1. Group instruction in double reed instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.

371: High Brass Methods. 2-0-1. Group instruction in high brass instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.

372: Low Brass Methods. 2-0-1. Group instruction in low brass instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.

381: Percussion Methods I. 2-0-1. Group instruction in percussion instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.


420: Vocal Pedagogy I. 3-1-2. Methods and materials of teaching voice in private studio and/or in school.

455: Guitar Pedagogy I. 3-1-2. Methods and materials of teaching guitar in private studio and/or in school.


466: Secondary Instrumental Methods. 1-3-3. Preq., Admission to a teaching program. Materials and methods for the teacher and supervisor of instrumental music (program building, contests, festivals, requisitions, grading materials, scheduling and rehearsing). (G)

467: Clarinet Pedagogy I. 3-1-2. Methods and materials of teaching clarinet in private studio and/or in school.

468: Clarinet Pedagogy II. 3-1-2. Practice teaching of beginning students is integral to this course.

471: Trumpet Pedagogy I. 3-1-2. Methods and materials of teaching trumpet in private studio and/or in school.

472: Trumpet Pedagogy II. 3-1-2. Practice teaching of beginning students is integral to this course.

475: Tuba Pedagogy I. 3-1-2. Methods and materials of teaching tuba in private studio and/or in school.

476: Tuba Pedagogy II. 3-1-2. Practice teaching of beginning students is integral to this course.

**MUSIC TECHNOLOGY (MUTC)**

114: Music Technology. 1-2 semester hours. Individualized instruction in the techniques of working with various sound sources and resources in the field of music technology.

301: Computer Science in Music. 2-2-3. Study of general computer applications and music related applications including notation, graphics, sound generation, sequencing, audio manipulation, and other related uses.

**MUSIC THEORY (MUTH)**

100: Rudiments of Music Theory. 0-2-2. Instruction in the fundamentals of music theory including reading, notation, and aural skills.


201: Music Theory IV. 2-2-2. Preq., MUTH 103. Continuation of MUTH 103 with emphasis on the organization and interaction of melodic, harmonic and rhythmic concepts and musical forms. Aural training and functional keyboard is intensified in proportion to the depth of course content.


301: Music Composition. 0-3-3. Preq., MUTH 203. A survey of the techniques of 20th century composition with projects consisting of the writing of short compositions illustrating these techniques.

302: Form and Analysis. 0-3-3. Preq., MUTH 203. A study of specific examples of the major forms of composition to show the relative importance of detail to the overall comprehension of a composition.


370: Instrumental Arranging. 0-2-2. Preq., MUTH 203. A study of writing for the individual instruments of the band and orchestra, the combinations of instruments in the various sections, and the combination of all the sections.

401: Counterpoint. 0-3-3. Preq., MUTH 203. A study of contrapuntal practice of the 18th and 19th centuries with emphasis on the understanding of counterpoint within a harmonic context.

**NANOSYSTEMS ENGINEERING (NSE)**

201: Fundamentals of Nanosystems Engineering. 3-1-2. Preq., CHEM 102 and PHYS 201. Fundamentals of nanotechnology and its application to engineering systems, emphasizing basic principles, materials, measurement tools, fabrication techniques, and applications.

301: Nanosystems Engineering Research Seminar. 3-0-1. Preq., NSE 201, PHYS 412, ELEN 334, and MEEN 382. Introduction to methods of research and development for nanosystems engineering projects such as literature reviews, scientific writing and presentation, and research program development.

401: Nanosystems Engineering Design I. 3-1-2. Preq., NSE 301. Open-ended, team-based engineering design/research projects that draw on the

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students’ entire academic experience utilizing the engineering design process.


403: Nanosystems Engineering Design III. 3-0-1. Preq., NSE 402. A continuation of NSE 402 with emphasis on prototype construction and evaluation.

<table>
<thead>
<tr>
<th>NURSING (NURS)</th>
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</thead>
<tbody>
<tr>
<td>100: Transition to Associate Degree Nursing, 0-2-2. For students applying to the LPN to RN articulation program. Emphasizes transition to the university environment, roles, and competencies of the associate degree nursing role.</td>
</tr>
<tr>
<td>109: Introduction to Nursing, 0-2-2. An introduction to the health care system and professional nursing. Basic human needs, the elderly client, and concepts related to death and dying are introduced.</td>
</tr>
<tr>
<td>110: Introduction to Application of the Nursing Process, 12-0-3. Coreq., NURS 109, and credit or registration in BISC 225 and 226. Acquaints student with basic nursing principles and techniques of safe nursing care to meet basic human needs. Emphasis on interpersonal skills, counseling, and patient-centered care.</td>
</tr>
<tr>
<td>111: Adult Health Maintenance I, 8-3-5. Preq., NURS 109 and 110 and BISC 225 and 226 and credit or registration in BISC 227. Study, identification and application of nursing knowledge and skills related to adult health needs. Emphasis on patient-centered care utilizing the nursing process.</td>
</tr>
<tr>
<td>112: Adult Health Maintenance II, 8-3-5. Preq., NURS 112 or 113, BISC 225, 226, and 227, MATH (GER). Continuation of the study, identification and application of nursing knowledge and skills needed related to adult health needs. Emphasis on patient-centered care utilizing the nursing process.</td>
</tr>
<tr>
<td>116: Adult Neuro/Psycho-Social Health Maintenance, 8-3-5. Preq., NURS 114 and PSYC 102. Utilizes nursing knowledge/skills in provision of health care. Emphasis on nursing care of clients experiencing threats to needs as a result of neuro-psycho-social dysfunction.</td>
</tr>
<tr>
<td>210: Maternal/Newborn Health Maintenance, 8-3-5. Preq., NURS 116. Study/application of principles and concepts of family-centered maternal/newborn care. Emphasis on meeting specific needs of clients during the childbearing cycle and newborn period.</td>
</tr>
<tr>
<td>212: Child Health Maintenance, 8-3-5. Preq., NURS 116 and PSYC 308. Study/application of nursing knowledge/skills related to children's and adolescent's health needs. Includes growth and development, family, and prevention of and intervention in illness.</td>
</tr>
<tr>
<td>214: Nursing Seminar, 0-1-1. Preq., Credit in all previous nursing courses. Study of current nursing trends in light of evolving patterns and practices. Emphasis on professional opportunities and obligations and legal aspects of nursing practice.</td>
</tr>
<tr>
<td>216: Nursing Practicum, 24-4-7. Coreq., NURS 214. Preq., Credit in all other nursing courses. Integration of knowledge and skills acquired in previous nursing courses in caring for clients with complex and/or multiple threats to basic needs.</td>
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| PHIL 

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<thead>
<tr>
<th>PHILOSOPHY (PHIL)</th>
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</thead>
<tbody>
<tr>
<td>201: Introduction to Philosophy, 0-3-3. Preq., junior standing or permission of the instructor. Philosophical vocabulary; types and problems of philosophy; major philosophical positions. Statewide Transfer Agreement Course*</td>
</tr>
<tr>
<td>305: Ethics, 0-3-3. Preq., PHIL 201 or permission of the instructor. A study of the writings of the major moral philosophers, beginning with the Greeks and continuing to the present.</td>
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<tr>
<th>PHYSICS (PHYS)</th>
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<tbody>
<tr>
<td>102: Introductory Physics, 2-1-1. An introductory survey of physics, use of library resources, and basic computation.</td>
</tr>
<tr>
<td>103: Introductory Physics, 2-1-1. A continuation of PHYS 102.</td>
</tr>
</tbody>
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wave motion, and behavior of fluids. Fundamental importance of mechanical principles in all fields of physics emphasized. (G)

423: Physical Mechanics. 0-3-3. Preq., PHYS 422. A continuation of PHYS 422. (G)

424: Quantum Mechanics. 0-3-3. Preq., PHYS 423 or equivalent, PHYS 416, and MATH 245. An extension of mechanics into the microscopic world. The statistical nature of physical law is developed to augment the classical Newtonian picture of the macroscopic world.

430: Introduction to Medical Physics. 0-3-3. Preq., PHYS 209-210 or 201-202. A basic course in Physics of radiology, designed for students interested in therapeutic and diagnostic uses of ionizing radiation. (G)

435: Undergraduate Physics Research. 1-3 hours credit (6). Preq., consent of instructor. Introduction to methods of research and work in physics research. (G)

440: Fourier Optics. 0-3-3. Preq., PHYS 406, 407, or ELEN 411. An introduction to the theory of Fourier Optics including optical data processing and holography. (G)


462: Quantum Physics for Teachers. 0-3-3. Preq., 8 hours of Physics or permission of instructor. A survey of modern physics as used by the high school teacher of physics. Emphasis is placed on experimental techniques.

463: Modern Physics for Teachers. 0-3-3. Preq., 8 hours of Physics or permission of instructor. Hands-on experience for teachers developing a physics science program that emphasizes the observational side of physics.

465: Physics of Sound. 0-3-3. Preq., PHYS 205. The physical and psychophysical processes associated with sound are studied so that the basic mechanisms of hearing, speech and music can be better understood.

470: Seminar. 1-6 hours credit. Preq., Permission of instructor. An opportunity is given for students to present current topics and actively participate in discussions concerning new developments in physics.

480: Modern Astrophysics. 0-3-3. Preq., PHYS 417. Astrophysics is discussed in light of the tremendous amount of data accumulated from areas such as high energy experimental physics and elementary particle theory.

503: Topics in Physics. 1-3 hours credit (6). Independent study. Topics arranged to meet the needs of the student.

510: Mathematical Methods in Physics. 0-3-3. An advanced treatment of the approaches used to formulate solutions to physical problems, such as boundary value problems, variational methods and approximate solutions.


522: Quantum Mechanics. 0-3-3. An outline of the principles of wave mechanics and quantum mechanics, followed by their application to problems in atomic and nuclear theory.


524: Quantum Theory of Fields. 0-3-3. Preq., PHYS 523. An advanced course on the quantum structure of field theories. Functional techniques are used to discuss the quantum theory of electromagnetism and strong interactions.


532: Theories of Physics. 0-3-3. A continuation of PHYS 531.


540: Computational Methods in Physics Modeling and Simulation I. 0-3-3. Computational methods for implementing modeling and simulation of physical systems.


549: Physics Research & Reporting. 0-3-3 (6). Preq., 12 semester hours of graduate work. Experimental or computational study of a problem in physics. A survey of the relevant literature and a formal written report are required. This course fulfills the research and reporting requirement for a master's degree non-thesis option. (Pass/Fail)

551: Research and Thesis in Physics. (Pass/Fail). Preq., 12 semester hours of graduate work. Registration in any quarter is for 3 semester hours or multiples thereof. Maximum credit applicable towards the degree is 6 semester hours.

557: Advanced Topics in Physics. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-disciplines of physics.

101: Introduction to Plant Science. 0-3-3. Basic concepts of production and management of agronomic and horticultural crops.

211: Forage Crops and Pasture Management. 3-2-3. A study of the growth and adaptation of forage crops including types of plants, methods of establishment and improvement, and use of forages.

284: Woody Plants. 3-2-3. Identification of woody landscape plants, including culture, propagation, and use.

300: Horticulture Field Trip. 9-0-1. Field trips to experimental stations, large wholesale and retail nurseries, botanical gardens, and arboretum.

301: Landscape Design. 3-2-3. Elements and principles of design as applied to the home and other small properties.


310: Soil Science. 0-3-3. Preq., CHEM 100, 101, 102. A general study of soil science, emphasizing the relation of soil properties and processes to plant growth. Cannot be taken for credit if student has credit for ENSC 310.

311: Soil Science Laboratory. 3-0-1. Coreq. or Preq., PLSC 310. Laboratory exercises to elaborate fundamental principles of soil properties, soil testing, and soil survey reports. Cannot be taken for credit if student has credit for ENSC 311.

312: Turf Management. 3-2-3. Establishment, maintenance, and management of turf grasses for homes, athletic fields, golf courses, playgrounds, parks, highways, airfields, and other uses.

320: Plant Propagation. 3-2-3. Principles and practices of sexual and asexual methods or propagating horticultural plants.

384: Herbaceous Plants. 3-2-3. Identification of annual, perennial, and tropical plants, including culture, propagation, and use.

400: Special Problems. 1-3 hours credit. May be repeated for credit. Permission of instructor required. Assignments in floral or landscape design, greenhouse or field production projects or other horticulture projects.

409: Plant Breeding. 3-2-3. A study of the application of the fundamental principles of genetics to the development and maintenance of improved plant varieties. (G)


420: Greenhouse Management. 3-2-3. Principles and practices involved in greenhouse operation, including production of flowering and foliage crops.

421: Weed Science. 3-2-3. Weed control in Agricultural crops, including weed ecology, classification, dormancy, dissemination; seed anatomy and germination; herbicidal action and practical application techniques. (G)

422: Pest Management I. 0-3-3. Basic concepts of integrated pest management; pesticides, biological control agents, varietal resistance, pheromones and trap crops, laws and regulations, labeling requirements, pesticide classification and safety. (G)

423: Pest Management II. 3-2-3. Identification of insects, nematodes and disease-causing organisms affecting row crops of the south; monitoring procedures, economic threshold levels; steps in solving pest problems. (G)

440: Nursery Management. 3-2-3. Production, handling and sales practices in the nursery, greenhouse and garden center. (G)

441: Landscape Contracting. 3-2-3. Production operations; estimating and bidding, plant installation, care and maintenance, design considerations, use of structural elements and irrigation systems. (G)

450: Management of Soil and Water Quality. 3-2-3. Preq., PLSC 310 or ENSC 310. Study of agricultural practices and other activities that affect soil and water quality with an emphasis on solutions that avoid or minimize adverse environmental impacts. Cannot be taken for credit if student has credit for ENSC 450.

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POLITICAL SCIENCE (POLS)

201: National Government in the United States. 0-3-3. A study of the development of the national government with emphasis on problems connected with the federal system and separation of powers. Statewide Transfer Agreement Course*.

302: Comparative Foreign Governments. 0-3-3. Preq., POLS 201 or consent of instructor. A study of the political systems and governments of the major European nation-states of the twentieth century. (IER)


310: Government and the Economy. 0-3-3. Preq., POLS 201. Political-economic issues (employment, inflation, poverty, energy, environment, health care, etc.) are studied according to competing theories of political economy.


322: Political Parties in the United States. 0-3-3. Preq., POLS 201. A study of American political parties, including historical origins, their broad role in the political system, and their current place in American politics.

325: History of European Political Theory. 0-3-3. Preq., POLS 201, and junior class standing, or consent of instructor. A study of Western political philosophy from its beginnings to the nineteenth century. (IER)

327: Modern Political Theory and Ideologies. 0-3-3. Preq., POLS 201. A study of nineteenth and twentieth century political theory with emphasis on the principal modern ideologies (Anarchism, Communism, Socialism, Fascism, Democracy). (IER)


340: Race, Class, and Gender in American Politics. 0-3-3. Preq., POLS 201. An examination of three crucial political variables (race, class, gender), including their theoretical and historical impact and their combined relevance in contemporary American politics.

345: Scope and Methods in Social Sciences. 0-3-3. Preq., POLS 201. An introduction to basic statistics, computer and data analysis, research design, and the application of the qualitative and quantitative methods to the social sciences.

350: International Relations. 0-3-3. Preq., POLS 201. An introductory study of political contacts between modern nation-states, the origins of nationalism and imperialism, and the causes and effects of power politics. (IER)

355: American Foreign Policy. 0-3-3. Preq., POLS 201. America's foreign policy doctrines and the factors involved in their formulation, including constitutional framework, presidential and congressional leadership, pressure groups, public opinion, and international environment. (IER)

420: Contemporary Problems in Government. 0-3-3. Preq., One of the following courses: POLS 201, or 303, and junior standing.

426: American Constitutional Law I. 0-3-3. Preq. POLS 201. Introduction to judicial institutions and processes as well as a case method study of the constitutional issues of judicial review, federalism, government economic regulation, and others.

427: American Constitutional Law II. 0-3-3. Preq., POLS 201. A continuation of the case method study of constitutional law, with emphasis on political and civil rights (speech, press, assembly, religion, race, criminal procedure, etc.).

460: Politics of Developing Nations. 0-3-3. Preq., POLS 201. An analysis of the relationship of politics to rapid economic and social change in developing nations and evaluation of policies intended to promote development. (IER)

465: Asian Politics. 0-3-3. Preq., POLS 201. A survey of interrelationships among Asian nations, their relationships with occidental powers, their international roles, and politics of the region as a whole. (IER)

PROFESSIONAL AVIATION (PRAV)


111: Private Pilot Flight II. 4-0-1. Preq., PRAV 102 or concurrent enrollment. Provides student with approximately 24 hours of dual/solo flight instruction. Designed to meet FAA flight requirements for the Private Pilot Certificate. Special fee.


208: Introduction to Computers. 1-2-2. Introduction to computers to acquire computer literacy. Study of hardware, software, systems, and application in aviation.


239: Aviation Weather. 0-3-3. Preq., PRAV 102. Weather reporting, airborne weather radar, weather safety, and severe weather avoidance. Designed to meet weather knowledge requirements for instrument, commercial, and CFI ratings.

240: Instrument Pilot Ground I. 0-3-3. Preq., PRAV 102 and 111 or concurrent enrollment. Attitude instrument flying, instrumentation, navigation systems for general aviation and air carriers. Designed to meet the FAA ground training requirements for the Instrument rating.


243: Instrument Pilot Flight II. 3-0-1. Preq., PRAV 242. Provides the student with approximately 60 hours of dual instrument flight instruction necessary to meet the FAA requirements for the Instrument rating. Special Fee.

303: Aerodynamics. 0-3-3. A study of advanced aircraft design, aerodynamics, and performance.

315: Airport Planning & Management. 0-3-3. Provides the student with introductory exposure to the field and scope of airport planning and management.

316: Human Factors in Aviation. 0-3-3. For recognition of the comprehensive role of human factors in enhancing aviation safety.

320: Corporate Aviation. 0-3-3. Value/Benefit analysis of the corporate aviation decision. Topics include aircraft selection, flight department administration and operations, aircraft maintenance, FAA regulatory requirements, and funding considerations.


331: Air Carrier Systems: 0-3-3. Study of air carrier operations to include flight planning, large airplane systems, and performance systems. A capstone course designed to prepare students for a career with a commercial carrier.

332: Air Carrier Operations. 0-3-3. Study of required pilot operations, dispatcher procedures, and FAA certification requirements.


342: Commercial Pilot Flight I. 6-0-1. Preq., PRAV 341 or Private Instrument Certificate. Provides students with approximately 21 hours of flight instruction. Designed to meet the flight requirements for the FAA Commercial Pilot Certificate.

343: Commercial Pilot Flight II. 6-0-1. Preq., PRAV 342. Provides students with approximately 23 hours of flight instruction. Designed to meet the FAA flight requirements for the Commercial Pilot Certificate. Special Fee.

344: Commercial Pilot Flight III. 6-0-1. Preq., PRAV 343. Provides students with approximately 22 hours of flight instruction. Designed to

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meet the FAA flight requirements for the Commercial Pilot Certificate. Special Fee.


407: The National Airspace System. 0-3-3. A survey course designed to instruct the student on the National Airspace Systems to include Air Traffic Control issues and procedures.

410: Multi-Engine Pilot Flight. 3-0-1. Preq., PRAV 400 or concurrent enrollment. Provides students with flight instruction necessary for FAA Multi-Engine ratings. Special Fee.

411: Instructor Pilot Flight. 3-0-1 (3). Preq., PRAV 414 or concurrent enrollment and a Commercial Instrument Pilot Certificate. Provides students with flight instruction necessary to meet the requirements for an FAA Flight Instructor Certificate (CFI). Special fee.


415: Air Transport Pilot Flight. 3-0-1 (3). Preq., approval of Department Head. Provides the student with flight instruction necessary to meet the requirements for FAA Airline Transport certificates and ratings. Special fee.

419: Supervised Practice Flight/Ground Instruction. 3-0-1 (4). Preq., completion of PRAV 411 and 414. Directed observation and instructional critique of the student’s performance in developing lesson plans and presenting actual flight and ground instruction.

440: Airline Economics and Management. 0-3-3. An advanced study of airline operation, fleet acquisition, management techniques, economic considerations, public benefits applications.

490: The Government Role in Aviation. 0-3-3. Preq., Senior standing. Historic, current and future governmental control. A study of congressional action, the NAS, the FAA, ICAO, and state and local aviation laws.

491: Aviation Safety. 0-3-3. Historical development of aviation safety, accident/incident analysis and reporting, introduction to accident investigation, human factors, accident prevention and development of aviation safety programs.


496: Internship in Aviation. 3-12 hours credit. Preq., Department Head’s approval. Internship in area(s) of specialization. Supervised work in government or industry to gain experience in aviation fields. Minimum 90 clock hours; maximum 360 clock hours.

498: Independent Study. 0-3-3 (6). Preq., Department Head's approval. Directed study of air transportation as part of a foreign and domestic, multi-model transportation system. May be repeated once for credit.

### PSYCHOLOGY (PSYC)

102: General Psychology. 0-3-3. A survey of fundamental processes and concepts of human behavior. Statewide Transfer Agreement Course*.


204: Educational Psychology. 0-3-3. Education Majors only. A survey course designed to meet the needs of prospective teachers by bringing an application of psychological principles to the instructional setting.

205: Child Psychology. 0-3-3. Education Majors only. A study of the physical and mental growth of the child, the social, emotional, motor development, interests, and imaginative activities.

206: Adolescent Psychology. 0-3-3. Education Majors only. A study of the physical and mental growth of youth during the period of adolescence and the transition from childhood to adulthood.

207: Learning and Development. 1-3-3. An in-depth study of human development with emphasis on contemporary research relating to human learning and the application of psychological principles.

300: Elementary Statistical Methods in the Social Sciences. 0-3-3. A course designed to provide an orientation to statistical concepts used in the behavioral science field.

301: Fields of Psychology. 0-3-3. A study of the history of major fields and trends in psychology.

302: Physiological Psychology. 0-3-3. Preq., BISC 225 (or concurrent enrollment), PSYC 202. An intensive study of the physiology of the nervous system, and its relation to behavior.


308: Human Growth and Development. 0-3-3. A survey of human development from conception to old age and death.


320: Learning and Cognition. 0-3-3. A survey of the current theories of learning and cognition.


400: Behavior Modification. 0-3-3. Applied analysis to individual behaviors using concepts, and principles from experimental analysis of behavior.

404: Seminar in Psychology. 0-3-3-9. An intensive survey in selected current topics in the field of psychology. (G) Graduate students should contact instructor for more specific criteria.

411: Crisis Intervention. 0-3-3. Preq., 6 hours in PSYC and COUN 400 or approval of department head. Overview of theories, strategies, and service delivery systems in crisis intervention. (G)

414: Dynamics of Adjustment. 0-3-3. A comprehensive study of the problems of self-adjustment and self-management and the development of a well integrated personality. (G)


418: Abnormal Psychology. 0-3-3. Preq., PSYC 310 and 312. A study of the nature and development of abnormal behavior from a psychological viewpoint. (G)


450: Introduction to Clinical Psychology. 0-3-3. Preq., consent of instructor. Introduction to clinical psychology as a science and profession. Lectures, discussions, demonstrations, and field observations are provided for an overview of clinical psychology.

455: Environmental Psychology. 0-3-3 (6). Preq., PSYC 102. A survey of concepts about individual's interaction with the physical environment. Emphasis is placed upon designing physical surroundings to serve social and personal needs.

459: Research Methods in Psychology. 0-3-3. Preq., PSYC 300. An examination of the practical problems of designing, conducting, and interpreting research and of the structure and organization of research activities.

460: Field Research in Psychology. 1 - 3 hours credit (9). Preq., PSYC 459. Consent of the instructor. Supervised practice in methods of field research as a basic tool of psychology. Each student develops and executes a field research project. May be repeated for a maximum of 9 hours credit.

461: Data Analysis and Interpretation. 1-3 hours credit (3). Preq., PSYC 300 or equivalent. A course designed to provide the skills necessary to use currently existing computer software to analyze data encountered in the social sciences.

465: Industrial Psychology. 0-3-3. The application of psychological findings and concepts to the industrial environment. (G)

469: Psychology of Sexual Behavior. 0-3-3. Preq., PSYC 102 and junior standing. Survey of both normal and abnormal sexual behavior and selected techniques employed in sex therapy and counseling. (G)

474: Psychology of Adult Learning and Development. 0-3-3. Studies the processes of cognitive and psychosocial development in young, middle, and later adulthood. Emphasis is on aging process and factors, which affect adult learning.

475: Death, Dying and Grieving Process. 0-3-3. Exploration of one's personal values toward death and the grieving process, funeral customs
and practices, counseling the terminally ill, and various customs of death. Graduate students should contact instructor for more specific criteria. (G)

480: Psychology of Sex Roles. 0-3-3. Overview of psychology of sex roles including history, theory, methodology, sex differences, and implications for development, socialization, abnormal behavior, counseling and gender. (G)

484: Introduction to Human Relations. 0-3-3. An introduction to human relations factors in various work settings.

485: Industrial Behavioral Analysis. 0-3-3. Application to behavior change techniques in work settings. A study of how to effectively manage others' as well as one's own work habits.

490: Social and Psychological Aspects of Blindness. 0-3-3. Preq., enrollment in Educational Psychology Visual Impairments program or permission of instructor. Psychological and environmental aspects of blindness. Current and historical overview of practices & trends in the rehabilitation and education of individuals with visual impairments. (G)

494: Special Topics. 1-4 hours credit (9). Preq., 21 hours in psychology. Selected topics in psychology. May be repeated for credit up to a total of 9 semester hours in topic.

499: Health Psychology. 0-3-3. Preq., PSYC 102. A survey of the systematic application of psychology to the relevant areas of health, disease, and the health care system.

502: Cognitive Psychology. 0-3-3. Preq. enrollment in graduate program in psychology, counseling, or permission of instructor. Contemporary approaches to cognitive psychology; a broad survey of social cognition including attention, cognitive organization, mental reasoning, information processing, decision making, and human memory.

505: Couples Therapy. 0-3-3. An overview of couples development and therapy.

506: Family Therapy. 0-3-3. An overview of family development and therapy.

507: Learning and Development. 0-3-3. Provides an understanding of forces, which propel learning and development and enables teachers to help students successfully meet the unique demands of school.

508: Psychological Aspects of Disability. 0-3-3. An examination of attitudes, adjustment problems, sexuality, family and program implications for disabled populations.


512: Advanced Abnormal Psychology. 0-3-3. Preq., Enrollment in Counseling MA Program or permission of instructor. Comprehensive review of the major characteristics, etiology, and implications for treatment of the major psychological disorders. Clinical and research findings are emphasized.

513: Organizational Psychology. 0-3-3. A survey of current research and theories comprising organizational psychology. Critical-thinking skills are used to evaluate empirical research and current theories in the field.

516: Personality Psychology. 0-3-3. Preq. include the professional and legal requirements for personnel selection instruments; design and evaluation of personnel selection systems, designing and conducting job analyses and selection interviews.

517: Training and Development. 0-3-3. Provides the skills necessary to analyze, design, and evaluate training in organizations. Topics include determining training needs, task analysis, learning objectives, training methodology, and evaluation.

521: Job Analysis and Performance Appraisal. 0-3-3. Preq., PSYC 542. Examination of methodologies related to various job analysis and performance appraisal systems, including systems focused on work context and work content.

523: Leadership and Decision-Making. 0-3-3. Examination of the various skills, behaviors, and attitudes required for effective leadership. Includes practices, decision-making, communication and ethical issues related to leadership.

524: Internship in Industrial/Organizational Psychology. 20-1-3 (6). Supervised experiences in an applied setting involving application of skills and field work in Industrial/Organizational Psychology.

533: Community Psychology/Rural Mental Health. 0-3-3. A study of community systems, intervention techniques, consultation methods, history and current status of the community mental health movement with particular emphasis on rural mental health research. Addresses psychological practice issues in the rural environment.


542: Statistical Methods in Behavioral Sciences. 0-3-3. A study of the statistical methods used to study problems in Behavioral Sciences.

543: Psychometrics. 0-4-3. Preq. Graduate enrollment in I/O Psychology, Educational Psychology, or Counseling Psychology, or permission of instructor. Test and measurement theory, including classical, true score, and item response theory models. Covers reliability, validity, scaling, norms, and score transforming issues.

580: Developmental Psychology of Blindness. 0-3-3. This course emphasizes knowledge of physical, social, and emotional development of the blind including acquisition of motor, language, and cognitive skills, birth through adulthood.

585: Comprehensive Exam in Industrial/Organizational Psychology. No credit. Required for all students in the Industrial/Organizational psychology master's program. Usually taken in the last term before graduation, but other arrangements may be made under extenuating circumstances.

589: Special Topics in Psychology. 1-4 hours credit, may be repeated. Preq., enrollment in relevant graduate program in Psychology or permission of instructor. Current or specialized topics in psychology.

599: Master's Thesis. 0-3-3 (6 hours minimum). (Pass/Fail). Original research conducted under the supervision of a departmental faculty member in the student's program area. Student must be enrolled whenever university facilities or faculty are used.

600: Seminar: Issues in Academic Psychology & Teaching. 0-1-3 (9). May be repeated. Required of resident Counseling Psychology PhD students each quarter. Study of professional issues and research applications in counseling psychology. Non-degree credit.

601: Historical Foundations of Modern Psychology. 0-3-3. Historical development of psychology from its philosophical beginnings to the present.

602: Physiological Psychology. 0-3-3. A study of the neuroanatomical and neurochemical bases of behavior; contributions of physiological processes to fundamental behavioral processes.

603: Sensation and Perception. 0-3-3. Sensory and perceptual phenomena that influence motivation, cognition, and learning.

604: Theories of Social Psychology. 0-3-3. Theory and research concerning interpersonal perceptions, attitude formation and change, social motivation, and interactive processes.

605: Child Psychopathology. 0-3-3. Examines diagnosis and treatment of child and adolescent disorders from empirical, theoretical, and practical viewpoints.

607: Fundamentals of Psychopharmacology. 0-4-3. Preq., enrollment in Ph.D. program in Counseling Psychology or permission of the instructor. Biochemical substrates of emotion, affect, and behavior are reviewed. Psychopharmacological mechanisms and intervention strategies are emphasized along with a review of the treatment research literature.

608: Developmental Psychology. 0-3-3. An advanced theory and research based study of the biological, psychological, social, and cultural processes in human growth and development. Counseling Psychology PhD students only.

609: Personality Theory. 0-3-3. Comparative approach to personality theory from the framework of philosophical issues, definitional problems, and current research issues.

610: Professional Issues and Ethics. 0-3-3. An investigation of legal and ethical issues relevant to the practice of counseling psychology.

611: Advanced Group Counseling and Psychotherapy. 2-3-3. Group counseling theories with emphasis on advanced techniques and application, ethical responsibilities, and current trends with group research methodology. Practicum experience required.

613: Career Assessment and Counseling. 0-3-3. Preq., enrollment in Counseling Psychology Ph.D. program, PSYC 531, 616, and 617. Assessment and counseling of career clients using interest, ability, and personality tests.

614: Professional Seminar in Counseling Psychology. 0-3-3. Preq., Counseling Psychology Ph.D. students only. A survey of trends and issues pertinent to the professional activities of counseling psychologists.

616: Intellectual Assessment. 0-3-3. Preq. Enrollment in Counseling Psychology Ph.D. program and approval of instructor. This course focuses on psychological assessment and interpretation of tests of ability, achievement, and higher cognitive functions. Differential psychodiagnosis and formal report writing are emphasized.

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617: Personality Assessment: Objective and Projective. 0-3-3. Preq., approval of instructor. This course focuses on psychological assessment using tests of personality, DSM-IV psychodiagnosis, and DSM-IV Axis II disorders. Psychological report writing and interpretation are emphasized.

618: Motivation. 0-3-3. The study of levels of motivation from ethological to cognitive-social motives; relevant motivational theories are used to explain human behaviors.

619: Psychopathology. 0-3-3. Comprehensive review of the etiology of psychological disorders and their diagnosis; clinical research findings are emphasized.

620: Sex Roles and Behavior. 0-3-3. An investigation of the effect of gender upon cognition, affect, and behavior.

621: Career Development Theories. 0-3-3. Preq., Counseling Psychology PhD students only. Intensive review of theories and research literature on career development across the life span. Application of theories to current career- and work-related problems.

622: Theories of Counseling and Psychotherapy. 0-3-3. Preq., Counseling Psychology PhD students only. A comparative approach to theories of counseling and psychotherapy at an advanced level.

623: Integrative Assessment. 0-3-3. Preq., PSYC 616 & 617, Counseling Psychology PhD students only. Emphasis on selection, administration, and combination of results from various assessment instruments into an integrated whole. Integrative report writing is emphasized.

624: Counseling Psychology Internship. 1-3 hours credit. Minimum credit allowed is 12 hours. Preq., completion of departmental requirements and approval of Counseling/Psychology Program Director and Department Head. One calendar year (or two half-years) of supervised full-time counseling psychology experience in a Department-approved (typically, APA-approved) internship facility.

625: Research Seminar. 0-3-3. Preq., Counseling Psychology PhD students only, or signature of instructor. Integration of research design, methodology, and statistics in psychological research.

627: Advanced Assessment Topics. 0-3-3 (9). Preq., Counseling Psychology PhD students only. A rotating topics course providing advanced training in selected assessment instruments and processes. May be repeated twice.

628: Special Topics in Psychology. 1-3 hours credit (9). May be repeated. Counseling Psychology PhD students only or permission of instructor. Intensive study of a selected topic in psychology.

629: Advanced Seminar in Counseling Theories & Techniques. 0-3-3 (9). May be repeated. Preq., Counseling Psychology PhD students only. A rotating topics course providing advanced study of selected counseling theories and therapeutic techniques.

630: Supervision in Counseling & Psychotherapy. 0-3-3. Preq., Counseling Psychology PhD students only. Overview of supervision/consultation models, including application of principles to clinical practice.

631: Multiculturalism and Diversity. 0-3-3. Preq., Counseling Psychology PhD students only. In-depth examination of issues related to multiculturalism and diversity, with a focus on implications for professional practice at the doctoral level.

632: Psychotherapy Research. 0-3-3. Preq., Counseling Psychology PhD students only. Investigation of research on change elements and outcome research in psychotherapy, including factors impacting change processes and cost-benefit issues raised by managed mental health care.

641: Advanced Experimental Design and Analysis. 0-3-3. Covers the principles of designing and implementing an experiment, quasi-experimental, correlational, and descriptive research designs, especially as they pertain to counseling psychology.

642: Advanced Statistical Methods. 0-3-3. Preq., PSYC 641. Advanced univariate statistical theory and methods, with an emphasis on statistical problems likely to be encountered by counseling psychologists.

643: Multivariate Statistics. 0-4-3. Preq., PSYC 642. Covers advanced multivariate statistical techniques, including (but not limited to) multiple regression, MANOVA/ANCOVA, and factor analysis, and their implementation in SPSS.

650: Practicum in Counseling Psychology. 3 hours credit (9). (Pass/Fail). May be repeated. Supervised counseling experience within a practicum setting.

651: Advanced Practicum in Counseling Psychology. 1-3 hours credit (9). (Pass/Fail). Preq., PSYC 650 (9 hours total). May be repeated. Progressive development of advanced clinical skills within an approved practicum setting. Counseling Psychology PhD students only.

652: Field Placement in Practicum Setting. 1-3 hours (18). (Pass/Fail). May be repeated. Preq., PSYC 650 & 651 (three quarters each), Counseling Psychology PhD students only. Advanced practicum in a field setting.

660: Dissertation Research. 1-3 hours credit. Proposal, research, and defense of original doctoral-level research study. May be repeated each quarter for 3 credit hours per quarter. Minimum credit allowed is 6 hours. Enrollment is minimally required during the term in which the dissertation proposal is defended and the term in which the dissertation research is defended.

685: Comprehensive Exam in Counseling Psychology. No credit. Required for all students in the Counseling Psychology doctoral program. Must be completed before applications are made for internship and before dissertation hours are begun.

**QUANTITATIVE ANALYSIS (QA)**


390: Quantitative Methods for Business and Economics. 0-3-3. Preq., junior standing. Presentation and review of pertinent quantitative topics to furnish the necessary background for the graduate quantitative methods field of study.

430: Management Science Methods. 0-3-3. Preq., MGMT 333. Linear programming including sensitivity analysis, the transportation problem, inventory analysis, and PERT.


540: Advanced Management Science Methods. 0-3-3. Preq., QA 430 or consent of instructor. Quantitative decision-making including linear, integer and parametric programming; project planning and scheduling with CPM/PERT and MAP as applied to business management.

550: Directed Study in Quantitative Analysis. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of quantitative analysis.

605: Methods of Business Research. 0-3-3. Preq., QA 522 or consent of instructor. Formulation of statistical hypotheses germane to business research. Determination of the experimental conditions and extraneous conditions. Methods of measurement and the statistical analysis required.


620: Seminar in Management Science. 0-3-3. Study of current topics in the discipline of Management Science. In-depth analysis of a specialized field along with an investigation of the literature.

622: Advanced Business Statistics. 0-3-3. Preq., QA 432. Requires Doctoral standing. May require additional class meetings. Applied statistical methods utilizing the computerized Statistical Analysis System (SAS); multiple regression and correlation, biased regression, analysis of variance, multiple comparisons, and non-parametric methods. Credit will not be given for QA 622 if credit is given for QA 522.

640: Advanced Management Science Methods. 0-3-3. Preq., QA 430 or consent of instructor. Requires Doctoral standing. May require additional class meetings. Quantitative decision-making including linear, integer and parametric programming; project planning and scheduling with CPM/PERT and MAP as applied to business management. Credit will not be given for QA 640 if credit is given for QA 540.

650: Directed Study in Quantitative Analysis. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of quantitative analysis.

685: Comprehensive Exam in Quantitative Analysis. No credit. (Pass/Fail). Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in quantitative analysis. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in quantitative analysis. Requires consent of graduate director.

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**READING (READ)**

200: Reading Skills Improvement. 0-3-3. This course is designed to assist any student who would like to improve basic reading skills. Emphasis on comprehension, concentration and speed.

310: Russian Short Prose Fiction. 0-3-3. A study of contemporary Russian literature.的作品 from the 19th and 20th centuries; repeatable for credit with different course content. May not be counted towards a minor in Russian. Also listed as ENGL 425. (G) (IER)


302: Russian Composition. 0-3-3. Construction of an innovative curriculum in reading, plans for implementation of new curriculum, and supervision of the reading program.

544: Reading in the Content Areas. 0-3-3. Provides teaching methods and research findings related to the reading process as it applies to the various content areas of the curriculum.

313: The Sociology of Deviance. 0-3-3. A study of the family as a social institution with emphasis on social inequality; social class, status and power as determinants of behavior, values and life chances.

370: Environmental Sociology. 0-3-3. Preq., SOC 201. Examines population, food, resources, energy, pollution, urbanization, wilderness, biodiversity and other topics in light of current sociological theories.

401: Social Theory. 0-3-3. Preq., SOC 201. Junior standing or consent of instructor. The development of sociological theory and its relation to research.

410: Family Violence. 0-3-3. Sociological examination of the types, extent, causes, and consequences of violence between family members and intimate partners; policy implication are explored.

416: Sociology of Education. 0-3-3. The education system and the larger society; education as a social structure and process; implications for students, parents, teachers, and administrators.

420: Treatment of Offenders. 0-3-3. Preq., SOC 314. A study of principles of treatment of offenders; application of social science principles to treatment of offenders; interviewing, guidance, and counseling of offenders.

424: The Sociology of Corrections. 0-3-3. Trends, issues and problems in the field of corrections.

425: Family Therapy. 0-3-3. Preq., SOC 201 or FCS 210 or SOC 308. A survey of family therapy; the family as a system; theoretical models of modern practice, state laws and policies; code of ethics governing family therapy.

435: Sociology of Aging. 0-3-3. Preq., SOC 201 or consent of instructor. Social and biological problems as a consequence of aging. Current issues, deficiencies and resources available to deal with specific problems.

436: Grieving and Loss. 0-3-3. An analysis of loss, grief and bereavement. An assessment of services, programs, treatments, stress reduction techniques and communication skills.

444: Substance Abuse. 0-3-3. Social, cultural and individual problems associated with alcohol and drug use. Family and other group responses. The nature and treatment of alcoholism and drug addiction.


455: Social Movements and Collective Behavior. 0-3-3. Preq., SOC 201. Seminar for advanced students in social sciences. Social movements and collective behavior as studied in sociology, such as fads, migrations, mass hysteria, disaster reactions, and riots.

210: Principles and Elements of Sociology. 0-3-3. An introduction to the structures and processes of group behavior. Statewide Transfer Agreement Course*.


205: Introduction to Anthropology. 0-3-3. Introduction to the origin and development of man; the nature and development of culture. Statewide Transfer Agreement Course*.

210: Introduction to Criminal Justice. 0-3-3. A survey of the criminal justice system, its history and organization at the local, state and federal levels.


345: Social Stratification. 0-3-3. Types and results of social inequality; social class, status and power as determinants of behavior, values and life chances.

200: Reading Skills Improvement. 0-3-3. This course is designed to assist any student who would like to improve basic reading skills. Emphasis on comprehension, concentration and speed.

310: Russian Short Prose Fiction. 0-3-3. A study of contemporary Russian literature.的作品 from the 19th and 20th centuries; repeatable for credit with different course content. May not be counted towards a minor in Russian. Also listed as ENGL 425. (G) (IER)

**RUSSIAN (RUSS)**

101: Elementary Russian I. 0-3-3. Introduction to contemporary spoken and written forms of Russian; emphasis on communicative competence.

102: Elementary Russian II. 0-3-3. Preq., RUSS 101. Continuation of introduction to contemporary spoken and written forms of Russian; emphasis on communicative competence.

201: Intermediate Russian I. 0-3-3. Preq., RUSS 102. Study of the more complex grammatical structures of Russian; emphasis on developing communicative competence and basic skills in reading and writing.

202: Intermediate Russian II. 0-3-3. Preq., RUSS 201. Study of the more complex grammatical structures of Russian; emphasis on developing communicative competence and basic skills in reading and writing.

203: Intermediate Russian III. 0-3-3. Preq., RUSS 202. Study of the more complex grammatical structures of Russian; emphasis on developing communicative competence and basic skills in reading and writing.

301: Russian Conversation. 0-3-3. Preq., RUSS 203. Emphasis on developing conversational fluency in Russian in a variety of academic and social contexts.

302: Russian Composition. 0-3-3. Preq., RUSS 203. Development of skills in writing Russian in a variety of academic and social contexts.


310: Russian Short Prose Fiction. 0-3-3. Preq., RUSS 301 or permission of department head. In Russian. Russian short story, skazka, rasstav, povest' and the novella. Includes works by Pushkin, Gogol, Lermontov, Chekhov, Babel, Rasputin, Tolstaya, Makanin, and others.

425: Russian Literature in English Translation. 0-3-3 (6). Representative works of Russian literature from the 19th and 20th centuries; repeatable for credit with different course content. May not be counted towards a minor in Russian. Also listed as ENGL 425. (G) (IER)

**SOCIAL SCIENCE (SOSC)**

470: Senior Reading Program. 3 hours credit (9). A reading/research course optional for all majors in geography, political science, and sociology.

**SOCIOLOGY (SOC)**

201: Principles and Elements of Sociology. 0-3-3. An introduction to the structures and processes of group behavior. Statewide Transfer Agreement Course*.


205: Introduction to Anthropology. 0-3-3. Introduction to the origin and development of man; the nature and development of culture. Statewide Transfer Agreement Course*.

210: Introduction to Criminal Justice. 0-3-3. A survey of the criminal justice system, its history and organization at the local, state and federal levels.


345: Social Stratification. 0-3-3. Types and results of social inequality; social class, status and power as determinants of behavior, values and life chances.

200: Reading Skills Improvement. 0-3-3. This course is designed to assist any student who would like to improve basic reading skills. Emphasis on comprehension, concentration and speed.

310: Russian Short Prose Fiction. 0-3-3. A study of contemporary Russian literature.的作品 from the 19th and 20th centuries; repeatable for credit with different course content. May not be counted towards a minor in Russian. Also listed as ENGL 425. (G) (IER)

**SPANISH (SPAN)**

101: Elementary Spanish. 0-3-3. Conversation reading and grammar. Non-native speakers only. Statewide Transfer Agreement Course*.


*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring for additional information.


380: Readings in Spanish Literature. 0-3-3. Preq., SPAN 301 and/or 302 or permission of department head. Required for major in Spanish. A survey of the masterpieces of Spanish literature.


403: The Novel in Spain. 0-3-3. Preq., SPAN 380, 381 or permission of department head. Study of the novel in Spain from the sixteenth century to the present.

405: The Modern Drama of Spain. 0-3-3. Preq., SPAN 380, 381 or permission of department head. Study of the drama in Spain in the 19th and 20th centuries.


408: Spanish Civilization. 0-3-3. Preq., SPAN 380, 381 or permission of department head. Lectures and readings in Spanish history, geography, government, language, music art, etc.

425: The Novel in Mexico. 0-3-3. Preq., SPAN 380, 381 or permission of department head. A study of outstanding novels from 1800 to the present.

426: Spanish Literature in English Translation. 0-3-3 (6). Representative works of Spanish literature from the Middle Ages to the 20th century. Offered in English translation; repeatable for credit with different course content. May not be counted towards a major or minor in Spanish. Also listed as ENGL 426. (G) (IER)

427: Latin American Literature in English Translation. 0-3-3 (6). Representative works of 20th century Latin American literature; repeatable for credit with different course content. May not be counted towards a major or minor in Spanish. Also listed as ENGL 427. (G) (IER)

450: The Spanish Language. 0-3-3. Preq., 21 hours of Spanish or permission of department head. Advanced grammar. General characteristics of the language, including sources, etymology, dialects.


480: Commercial Spanish. 0-3-3. Preq., SPAN 450 or permission of department head. Study of common commercial forms for use in Spanish correspondence and business.

495: Psycho-social Management of Exceptional Students. 4-2-3. Preq., SPED 300. Non-behavioral teaching interventions emphasizing biophysical, psychodynamic, sociological, and ecological strategies; supervised application of skills and techniques using an instructional model that synthesizes everyday topics and review of elements of Spanish through structured compositions.

360: Education of the Partially Seeing Child. 0-2-2. Preq. SPED 301. Learning behavior, curriculum adaptation, educational programs, environmental movement and control, and behavioral characteristics of children with visual impairment.

375: Education Procedures and Materials in Special Education. 4-2-3. Preq., SPED 300 and 362 or permission of instructor. Educational procedures in developing and implementing curricula in the areas of self-help, language, social skills, motor skills, vocational skills, cognitive skills, and functional academics.

376: Materials and Methods for Severely and Profoundly Handicapped Students. 4-2-3. Preq., SPED 303 or permission of instructor. Educational procedures in developing and implementing curricula in the areas of self-help, language, social skills, motor skills, vocational skills, and functional academics.

400: Introduction to the Education of Exceptional Preschool Children. 2-3-3. An introduction to the nature and needs of preschool handicapped children. Students will review literature, publications, trends, and model programs. (G)

401: Teaching Strategies for Exceptional Preschool Children. 4-2-3. Preq., SPED 300, 460, and FCS 301. Emphasis on specific programs, materials and strategies for teaching young preschool children who have serious handicapping conditions. Areas covered include perceptual, motor, and intellectual development. (G)


403: Early Identification and Evaluation of Exceptional Children. 4-2-3. Preq., SPED 460. Early identification and evaluation principles and procedures, parent interviews, norm-and criterion-referenced measure; diagnostic evaluation assessment incorporated into individualized educational planning. (G)

404: Parent Involvement and Community Resources for Education for the Exceptional Student. 0-3-3. Preq., SPED 300 and 460. Parent-teacher duality roles and the dyadic process between student and teacher; material planning and implementation by parents through teacher modeling; community services. (G)


406: Advanced Procedures in Educating Severely and Profoundly Handicapped Students. 4-2-3. Preq., SPED 303 and 376 or permission of instructor. Diagnostic-prescriptive teaching procedures for educating severely and profoundly handicapped students, including criterion-referenced assessment procedures and individualized educational programming. (G)

490: Psycho-social and Educational Appraisal of Exceptional Students. 3-2-3. Preq., EDUC 402 and SPED 300 or consent of instructor. Concepts of measurement applied to exceptional students; normative assumptions; measures of receptive and expressive language; social maturity; and perceptual-motor functions, observations of procedures. (G)

495: Psycho-social and Educational Appraisal of Exceptional Students II. 7-2-3. Preq., SPED 490. Supervised administration of individual diagnostic tests, developmental scales, measure for the handicapped, interpretation and application to individualized educational planning and report writing. (G)

500: Curriculum Design for Exceptional Students. 4-2-3. A examination of issues and strategies required in selecting and developing curriculum for exceptional students. Emphasis on the scope and sequence of curriculum for all areas of exceptional students.

501: Contemporary Issues in Special Education. 0-3-3 (6). Historical and comparative approaches to theoretical issues and research, critical examination of assumptions, sampling, and tactics of research.

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503: Educationally Disadvantaged. 0-3-3. Biological, learning, interpersonal, and motivational determinants of behavior, cultural deprivation as a factor in school learning; educational implications.

510: The Exceptional Adolescent Student. 0-3-3. Advanced course designed to acquaint the student with the complex challenges of the exceptional adolescent. Emphasis on remedial efforts, pre-vocational and vocational skills needed by the exceptional adolescent.

517: Curriculum for the Gifted/Talented. 0-3-3. Preq., consent of area coordinator. Curriculum models in gifted/talented education, emphasizing essential principles and skills necessary for designing, implementing, and evaluating educational plans for gifted/talented students.

520: Advanced Study: Mental Retardation. 0-3-3. Preq., EDUC 541 and SPED 501. Advanced study of the biological, social, and psychological factors in retarded behavior.

530: Advanced Study: Nonsensory Physically Impaired. 0-3-3. Preq., EDUC 541 and SPED 501. Advanced study of the biological, social, and psychological factors in crippling conditions and special health problems.


560: Administration in Special Education. 0-3-3. The major administrative and supervision functions necessary for the effective operation of special education programs and the major areas of knowledge necessary to carry out these basic functions.

562: Advanced Study: School-Related Language Problems in Special Education. 0-3-3. Analysis of language deviations and disorders in classroom situations; understanding of assessment, approaches and models for remediation/enrichment. Intervention and flexibility in curriculum development.


575: Behavior Technology in Special Education. 3-2-3. Preq., SPED 475. Remediation of severe learning and behavior problems in students through programming and behavior modification; use of automated equipment for direct control of stimuli and contingencies.

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SPEECH THEATRE (SPTH)

100: Introduction to Theatre. 0-3-3. A comprehensive overview of the elements that comprise the theatre; intended as a basic preparation for an understanding of theatre art.

101: Stagecraft. 4-2-3. Practical experience in scenery construction, painting, stage lighting, and organizational techniques.

200: Stage Makeup. 3-0-1. Introduction to the practical design and application of stage makeup for the performer.

210: Beginning Acting. 4-2-3. Introduction to the art and craft of acting, with an emphasis upon physical, vocal, and analytical skills, as well as fundamentals of relaxation and performance.

211: Acting Voice and Diction. 4-2-3. Introduction to the mechanics of vocal production and speech for the performer and the International Phonetic Alphabet, with an emphasis on use of the voice in acting.

212: Advanced Scene Study. 4-2-3. Preq., SPTH 210 or 211. Acting study with an emphasis on character development in scene work utilizing a variety of rehearsal methods and approaches.

220: Dance for the Theatre I. 3-1-1(2). To establish a level of skill in performing basic patterns and skills, and to develop methods for teaching such skills.

260: Theatre Practicum I. 4-0-1(4). A practical introduction to studio experience in the theatre in the areas of technical and management. (Pass/Fail)

290: Theatre Appreciation. 0-3-3. A study of Theatre and its different forms and how they affect our life and society. Statewide Transfer Agreement Course*.

300: Seminar. 0-3-3(6). Individual problems and research in any area of theatre studies.

305: Stagehouse Mechanics. 4-2-3. Practical and theoretical experience working with stage rigging, electrics, and sound.

308: Technical Direction. 4-2-3. Preq., SPTH 101 and 305 or consent of instructor. Practical experience in advanced theories of stage technology, shop management, budgeting, cost effective solutions and construction practices.

309: Stage Management. 0-3-3. A study of the responsibilities, organization, and methods used in the operations of the manager in theatre.

310: Auditions and Careers. 4-2-3. Preq., SPTH 210 or 211 or consent of instructor. A practical study in the theatrical auditioning process with an examination of pursuing career opportunities in acting.

311: Period Acting Styles. 4-2-3. Preq., SPTH 212 or consent of instructor. A practical study of period styles of acting, including English and French Renaissance, Realism, Expressionism, Absurdism, Post-Modernism and Musical Theatre.

312: Advanced Acting. 8-1-3. Preq., must have signature of instructor. Advanced acting class that explores the issues and complexities of fight direction in performance.

314: Design for the Theatre I. 4-2-3. Preq., SPTH 305 or consent of instructor. A study of the theories of color, design, rendering, graphic techniques, and CAD design for the stage.

330: Beginning Directing. 3-3-3. Preq., SPTH 100, 212, or 409. An introduction to directing with an emphasis on research, script analysis, staging, actor coaching, and integrating technical elements into production.

371: The Craft of Dramatic Writing. 0-3-3. An introduction to writing for the actor with emphasis on projects aimed at focusing on the structures of character, action, and dialogue.

380: Stage Dialects. 3-3-3. Preq., SPTH 211 or consent of instructor. An advanced study of vocal production for actors, focusing on a wide variety of stage dialects, utilizing the work of Kristin Linklater and Jerry Blunt.

401: Seminar. 0-3-3(6). Individual problems and research in any area of theatre studies.

403: Design for the Theatre II. 4-2-3. Preq., SPTH 101 or consent of instructor. A study of the tangible elements of design for the stage, costume, and properties. (G)

410: Design for the Theatre III. 4-2-3. Preq., SPTH 403 and 314 or consent of instructor. A study of the intangible elements of design for the stage, lighting, and sound. (G)

415: Shakespeare. 0-3-3. The major plays and the poems. (Same as English 415) (G)

420: Dance for the Theatre I. 3-1-1. To establish a level of skill in performing intermediate to advanced patterns and skills, and to develop methods for teaching such skills.


435: History of the Theatre II. 0-3-3. Study of the theatre from the 18th Century to 1960. Focus on literature, production, style, performance, and historical context. (G)

436: Contemporary Developments in Theatre. 0-3-3. A study of theatre development since Ibsen. This course will cover trends, movements, and genres in all areas of theatre.

440: Advanced Directing. 3-3-3. Preq., SPTH 330 or consent of instructor. A practical course in directing methodology culminating in the direction of a publicly performed short play.

450: Stage Movement: Unarmed. 3-1-1. Preq., consent of instructor. Introduction to the falls, throws, rolls, scrappy fighting, martial, and unarmed techniques in performance.

451: Stage Movement: Swashbuckling. 3-1-1. Preq., consent of instructor. A performance class in the theatrical for of sword play most commonly represented by the old film swashbucklers.

452: Stage Movement: Broadsword. 3-1-1. Preq., consent of instructor. Theatrical broadsword generally encompasses the span of European history from the tenth century to the end of the fifteenth.

453: Stage Movement: Double Fence. 3-1-1. Preq., must have signature of the instructor. Theatrical double fence swordplay from the sixteenth and seventeenth centuries.

454: Stage Movement: Pole Arms. 3-1-1. Preq., must have signature of the instructor. Theatrical combat with the staff or pole-arm of the Middle Ages and Renaissance.

455: Stage Movement: Smallsword and Knife. 3-1-1. Preq., must have signature of the instructor. Theatrical broadsword generally encompasses the span of European history from the tenth century to the end of the fifteenth.

460: Theatre Practicum II. 4-0-1(3). Advanced practical studio experience in the theatre in the areas of technical and management. (Pass/Fail)

472: Advanced Dramatic Writing. 0-3-3(6). Preq., SPTH 471 or signature of instructor. Studies in the craft of dramatic writing with varying areas of concentration including research, adaptation, writing for the screen, stage, radio, video, etc. (G)

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211: Public Speaking. 0-3-3. An overview of arts management in the fields of performing and visual arts. Included are basic management principles, personal management, and organizational structures and procedures. (G)

491: Promotion. 2-3-3. Study of promotional theory that enables students to design, produce and evaluate promotional campaigns for fine arts institutions and events. (G)

500: Introduction to Graduate Studies in Theatre. 0-2-2. An introduction to research and writing as required for success within the graduate program of study in theatre.

501: Seminar. 0-3-3 (6). Preq., Permission of instructor. Individual problems and research in any of the following general areas of concentration: acting, directing, technical direction scene design, costume design, lighting design, properties design, stage management, arts management, playwriting, dramaturgy, dramatic studies, etc. Registration by permission of the instructor.


516: Arts Administration. 0-3-3. Study of arts administration concentrating on the theories and practices involved in the business aspects of theatre.

518: Interpretation of Contemporary Drama. 0-3-3. Preq., SPHT 315 and 319. A study of American and European drama from 1940 to the present.

531: Studies in Dramatic Literature. 0-3-3. A study of dramatic literature chosen from one of several dramatic eras and/or genres.

533: Theories of Performance. 4-2-3. Preq., SPHT 500 or consent of instructor. A seminar course examining the theories of theatricality and performativity through a wide variety of theatrical periods and genres.

536: Analysis and Criticism of Drama. 0-3-3. A seminar course in the theory of critical analysis of drama from Aristotle to the present.

540: Graduate Studies in Acting. 4-2-3. Preq., consent of instructor. A study of the practice of acting and performance, with the subjects of investigation to vary according to need. Practical application of material covered is required.

541: Graduate Acting Styles. 4-2-3. Preq., SPHT 540 or consent of instructor. An intense, practical study of a wide variety of acting styles. Practical application of material covered is required.

550: Graduate Studies in Directing. 4-2-3. Preq., consent of instructor. An advanced study of stage directing, focusing on research, analysis, style, and preparation. Practical application of material covered is required.

551: Graduate Directing Seminar. 4-2-3. Preq., SPHT 521 or consent of instructor. A seminar course in stage directing with the subjects of investigation to vary according to need. Practical application of material covered is required.

SPEECH (SPCH)

110: Principles of Speech. 0-3-3. Designed to develop the principles of effective oral communication in typical speaker-audience situations, through practice in informative and persuasive speaking. (Cannot be taken for credit if student has credit for SPCH 377.) Statewide Transfer Agreement Course*.

202: Supervised Observation. 3-0-1. This course is designed to provide students with supervised observation of diagnostic and therapy sessions with clients who present speech, language and/or hearing disorders.

210: Introduction to Communicative Disorders. 0-3-3. A study of the various disorders of communication, their nature, etiology, and treatment.

211: Public Speaking. 0-3-3. Preq., SPCH 110 or permission of instructor. This course is concerned with developing advanced skill in special occasion speeches, the book review, the entertaining speech, and effective reading from an original speech.

222: Phonetics. 0-3-3. Principles of phonetics; articulatory phonetics; description and classification of sounds; transcription at different levels of detail; production and perception included.

260: The Mass Media. 0-3-3. Consideration of these media from the viewpoint of their audience; emphasizes the development of objective standards for evaluating mass communication. Open to all students.

300: Discussion and Debate. 0-3-3. A study of the principles of group discussion and debate with practical experience in each. Statewide Transfer Agreement Course*.

301: Anatomy and Physiology of the Speech and Hearing Mechanism. 0-3-3. Functional anatomy and physiology of those structures associated with speech production and reception.

302: Introduction to Speech and Hearing Science. 0-3-3. Comprehensive survey of the communicative process from the speaker to the listener, including speech production, acoustics, and speech perception.

312: Clinical Procedures. 7 1/2-2-4. Students are taught principles and procedures used with clients with speech disorders through lecture, observation and supervised clinical experience.

315: Oral Interpretation of Literature. 0-3-3. Preq., SPCH 110. Advised, SPCH 211. The development of responsiveness to prose, poetry, and drama, and the ability to communicate the logical, emotional, and aesthetic elements to an audience.

325: Introduction to Communication Research Methods. 0-3-3. A study of the goals and methods of research with emphasis on understanding the nature and structure of communication.

377: Professional Speaking. 0-3-3. Designed to establish a foundation for effective speaking in informative speaking, in the interview, and in communication from the manuscript. (Cannot be taken for credit if student has credit for SPCH 110.)

411: Diagnostic Procedures. 0-3-3. Principles and procedures for differential diagnosis of speech and language disorders. Administration and interpretation of various tests, parent interviewing, and clinical observation of behavior.

413: Articulation. 0-3-3. A study of the nature, etiology, and retraining procedures related to defective articulation with emphasis on current research contributions.

417: Seminar in Speech Communication. 0-3-3. Selected current issues/topics in an identified area of theory or application within the field of Speech Communication.


430: Nonverbal Communication. 0-3-3. Study of the effects of space, physical properties of persons, movement, eye and vocal behavior on interpersonal communication.

431: Organizational Communications. 0-3-3. Focuses on the factors related to communication processes within government, private, and volunteer organizations.

433: Applied Organizational Communication. 0-3-3. Application of communication practices in organizational settings including the practical application of material covered in the course.

440: Interpersonal Communication. 0-3-3. Study of the verbal and nonverbal dimensions of interpersonal relationships including dialogues, interviews and dyadic systems.

443: Introduction to Audiology. 0-3-3. Study of the auditory mechanism, physics of sound, the process of hearing, disorders of hearing and their treatment. (G)

451: Communication Training and Development. 0-3-3. Critical analysis and practical application of the relationship between the study of communication and training and development.

455: Communication Theory. 0-3-3. An examination and synthesis of theoretical approaches to contemporary communication theory with special emphasis on interpersonal contexts.

460: Applied Forensics. 3-0-1 (9). Practical experience in debate and other forms of forensic speaking. May be repeated for a maximum of 9 hours credit.

465: Applied Practicum. 6-0-2 (6). Practical experience in clinical activities related to service programs. May be repeated for a maximum of 6 hours credit. Registration by permission of instructor.

466: Group Processes. 0-3-3. Theory and practice of conducting group meetings, group discussions, to include parliamentary procedure.

470: Language and Speech Development. 0-3-3. Study of the normal acquisition and maintenance of speech and language; theoretical formulations about speech and language behavior, and approaches to its study. (G)

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500: Introduction to Research. 0-3-3. A course designed to introduce students to research applicable to speech and theories of measurement including statistical and behavioral designs, reliability and judgments.

501: Seminar. 0-3-3 (9). Preq., Permission of Instructor. Individual problems and research in any of the following general areas of concentration: speech communication; speech-language pathology, speech and hearing science, audiology, theatre arts.

502: Audiological Assessment I. 0-3-3. Administration and interpretation of basic audiometric procedures: pure tone air and bone conduction, speech audiometry, acoustic immittance; clinical masking procedures; history-taking; patient counseling.

504: Language Disorders of Children: Remediation. 0-3-3. Preq., SPCH 520 and permission of instructor. Etiologies, remediation techniques, principles, and programs for the language disorders found among children and adolescents.


507: Dysphagia. 0-3-3. A study of the etiology, symptomatology, and anatomic/behavioral characteristics of dysphagia with an emphasis on principles and methods of diagnosis and treatment.

508: Practicum in Communicative Disorders. 1-3 hour(s) credit (18). Supervised clinical experience with individuals who have disorders of communication.


510: Speech Science. 0-3-3. Study of normal speech and voice production with emphasis on the respiratory, articulatory, and phonatory mechanisms, and speech perception.

512: Audiological Correlates of Language Disorders in Adults. 0-3-3. Preq., Permission of Department Head. Language changes/disorders associated with normal aging and a neurogenic origin with management implications for the audiologist.

513: Articulation Disorders. 0-3-3. Preq., permission of instructor. Study of current research in testing, prediction, and management procedures for articulation disorders.

514: Assistive Technology/Augmentative Communication for Speech-Language Pathologists and Audiologists. 1-3 hours credit (6). Preq., Permission of Department Head. An overview of assistive technology and augmentative communication devices, techniques for assessment and implementation, and funding issues. May be repeated for up to 6 semester hours credit.

516: Hearing Disorders. 0-3-3. Disorders of the auditory system with medical correlates and multi-cultural aspects of auditory disorders.

517: Hearing Science. 0-3-3. Basic acoustics, sound propagation, decibels, waveform analysis, and properties of hearing. May be repeated for up to 3 additional semester hours with permission of Department Head.

518: Anatomy and Physiology of the Auditory System. 0-3-3. Structures and function of the auditory system from the pinna to the cortex.

519: Professional Issues in Speech-Language Pathology and Audiology. 0-1-1 (6). Preq., Permission of Department Head. Issues and professional responsibilities related to the professional practice of speech-language pathology and audiology. Three semester hours required of all graduate students in SLP/A in the first year of study; may be taken for three additional semester hours with permission of Department Head.

520: Language Disorders in Children: Assessment. 0-3-3. Preq., permission of instructor. A study of standardized and non-standardized techniques used to assess language disordered children and adolescents.

521: Anatomy and Physiology of the Hearing Mechanism. 0-3-3. Structure and function of bodily organs related to the processes of hearing.

522: Clinical Methods for Speech-Language Pathology and Audiology. 1-3 hours credit (6). Preq., Permission of Department Head. Methods of clinical practice for speech-language pathology and audiology. May be repeated for up to 6 semester hours credit.

523: Adult Language Disorders. 0-3-3. Preq., permission of instructor. A study of acquired language disorders associated with brain damage in adults with an emphasis on symptomatology, assessment, and diagnosis.

524: Voice Disorders. 0-3-3. Preq., permission of instructor. A study of the etiology, symptomatology, and treatment procedures for voice disorders, including those that result from laryngeal pathologies.

525: Cleft Palate. 0-3-3. A study of the articularatory, resonant, and phonatory problems associated with cleft palate and facial maxillary disturbances including medical and speech therapy, habilitative and rehabilitative procedures.

526: Disorders of Fluency. 0-3-3. Preq., permission of instructor. A critical review of the literature to synthesize information regarding the definitions of fluency disorders, theories of etiologies, symptomatology, and treatment.

527: Advanced Diagnostic Procedures. 0-3-3. A study of formal and informal assessment procedures applicable to speech/language disorders. Emphasis on the role of differential diagnosis, specialized test procedures, and referral procedures.

528: Motor Speech Disorders. 0-3-3. Preq., permission of instructor. A study of motor speech disorders that result from damage to the central and peripheral nervous systems, their etiologies, symptomatology, diagnoses, and management.

529: Management of Adult Language Disorders. 0-3-3. Preq., SPCH 523 and permission of instructor. Clinical management of acquired adult language disorders.

530: Special Problems in Communicative Disorders. 0-3-3. Registration by permission of instructor. Individual research assignments in speech pathology and audiology.

531: Audiological Assessment II. 0-3-3. Audiological procedures used in differential diagnosis and their contributions to accurate assessment of auditory disorders with emphasis on clinical decision analysis.

532: Introduction to Amplification. 0-3-3. Basic hearing aid components, their function and selection, and verification of benefit. Review of earmold impression and fabrication methods and implications for the audiologist.

533: Differential Audiology. 0-3-3. Discussion, demonstration, and interpretation of behavioral tests used to differentiate hearing disorders.

534: Qualitative Research Methods. 0-3-3. The use of observational and interviewing research techniques for studying human communication.

535: Hearing Aids. 0-3-3. Involves discussion of hearing aids, selection procedures, and the amplification needs of the individual.

536: Hearing Conservation. 0-3-3. The effects of noise on humans with measurement and management of noise in accordance with OSHA guidelines.

537: Seminar in Interpersonal Communication. 0-3-3. Interpersonal communication theory and research including topics concerning acquaintance, attitudes, language, nonverbal codes, and dyadic and small group communication patterns.

539: Seminar in Organizational Communication. 0-3-3. Topics include theories of organizational communication, consultation, research and field experience in organizations, communication in organizational settings, and communication styles in decision making.

540: Industrial Audiology. 0-3-3. Directed toward the study of management and control of hearing problems in industry, and conservation of hearing in occupations and activities involving excessive noise exposure.

541: Physiological Tests of Auditory Function. 0-3-3. The application of psychoacoustic emissions and early, middle, and late auditory evoked potentials to the diagnosis of auditory system disorders.

542: Auditory Processing Disorders. 0-3-3. Auditory processing disorders and the methods and procedures used in their identification and treatment.


544: Communication in Small Groups. 0-3-3. Study of theory and research in the dynamics of small group communication processes with emphasis on the interaction of message variables with other variables.

545: Clinical Audiological Experience. 1 - 3 hour(s) credit (18). Supervised practicum in audiology including testing, aural habilitation/rehabilitation, report writing, and counseling clients with auditory problems.

546: Conference Course in Speech Communication. 0-3-3. Readings in the literature of speech communication designed to expand opportunities for individual consultation in research and in informational aspects of the students' work.

547: Internship. Advanced practicum in organizational communication in public, private and volunteer organizations.

548: Psychoacoustics. 0-3-3. Facts and models related to auditory function and the relationships between measurable quantities of acoustic signals to auditory sensations.

549: Audiology Clinical Practicum. 1 – 3 hour(s) credit (18). Preq., Permission of Instructor. Participation in supervised, basic audiological evaluations, report writing, and other clinical activities leading to supervised auditory and vestibular evaluation, management, and treatment; assignments in primary program and outreach service sites.
550: Research Proposal. 1 hour credit. Preq., Permission of Thesis Director. The student interacts with the Thesis Director to develop a research objective for the thesis.

552: Professional Seminar in Audiology. 1 – 3 hour(s) credit (9). Preq., Permission of Instructor. Current and advanced topics relevant to professional issues in audiology and related fields.

553: Vestibular System Disorders. 0-3-3. Assessment, management, and treatment strategies for individuals with vestibular system disorders. Emphasis on electroneystagmography and postural testing.


555: Externship in Communicative Disorders. 8 semester hours. 40 contact hours per week. Preq., permission of the instructor. Supervised clinical practicum in an affiliated off campus clinical facility.

556: Aural Rehabilitation. 0-3-3. Rehabilitative procedures for hearing impaired children and adults including speech and language, psychosocial, and educational deficits and management.

557: Externship in Audiology. 1 – 4 hour(s) credit (18). Preq., Permission of Department Head. Supervised clinical practicum in an off-campus university-affiliated hospital, private practice, or other appropriate agency.


559: Special Topics. 1 - 3 hours credit (9). Preq., Permission of Faculty Member(s) Involved or Department Head. Selected topics in an identified area of speech and hearing science, audiology, or speech-language pathology.

560: Individual Readings in Audiology or Speech-Language Pathology. 1-3 hour(s) credit (6). Preq., Permission of Instructor. Directed independent study of literature in a pre-selected area of audiology or speech-language pathology.

565: Comprehensive Examination in Audiology or Speech-Language Pathology. 2 hours credit. Preq., Permission of Comprehensive Examination Committee Chair. Registration required in the quarter in which the comprehensive examination is to be taken. Successful completion of the written is a prerequisite to the oral comprehensive examination.

570: Language and Speech Development. 0-3-3. Study of the normal acquisition and maintenance of speech and language; theoretical formulations about speech and language behavior, and approaches to its study.

589: Directed Research in Audiology or Speech-Language Pathology. 1 – 3 hour(s) credit (6). Preq., Permission of Faculty Member(s) Involved or Thesis Director. Students pursue individual research projects; enrollment for three hours credit required for development and presentation of thesis prospectus to the Thesis Committee.

600: Introduction to Research. 0-3-3. Introduction to research principles and designs applicable to speech communication, speech-language pathology, and audiology.

601: Seminar. 0-3-3 (9). Preq., Permission of Instructor. Individual problems and research in any of the following general areas of concentration: speech communication, speech-language pathology, speech and hearing science, audiology, theatre arts.

602: Audiological Assessment I. 0-3-3. Administration and interpretation of basic audimetric procedures: pure tone air and bone conduction, speech audiometry, acoustic immittance; clinical masking procedures; history-taking; patient counseling.


610: Speech Science. 0-3-3. Study of normal speech and voice production with emphasis on the respiratory, articulatory, and phonatory mechanisms, and speech perception.

612: Audiological Correlates of Language Disorders in Adults. 0-3-3. Preq., Permission of Instructor. Language changes/disorders associated with normal aging and a neurogenic origin with management implications for the communicative disorders clinician.

616: Hearing Disorders. 0-3-3. Disorders of the auditory system with medial correlates and multi-cultural aspects of auditory disorders.

617: Hearing Science. 0-3-3. Basic acoustics, sound propagation, decibels, waveform analysis, and filtering and distortion.

618: Anatomy and Physiology of the Auditory System. 0-3-3. Structures and function of the auditory system from the pinna to the cortex.

631: Audiological Assessment II. 0-3-3. Audiological procedures used in differential diagnosis and their contributions to accurate assessment of auditory disorders within the framework of clinical decision analysis.

632: Introduction to Amplification. 0-3-3. Basic hearing aid components, their function and selection, and verification of benefit. Review of ear mold impression and modification methods.

636: Hearing Conservation. 0-3-3. The effects of noise on humans with measurement and management of noise in accordance with OSHA guidelines.

641: Physiological Tests of Auditory Function. 0-3-3. The application of otoacoustic emissions and early, middle, and late auditory evoked potentials to the diagnosis of auditory system disorders.

642: Auditory Processing Disorders. 0-3-3. Auditory processing disorders and the methods and procedures used in their identification and treatment.


645: Clinical Supervision in Audiology. 1 – 3 hour(s) credit (6). Preq. Permission of Department Head. Processes involved in clinical supervision of students in diagnostic audiology and/or aural rehabilitation.

648: Psychoacoustics. 0-3-3. Facts and models related to auditory function and the relationships between measurable quantities of acoustic signals to hearing sensation.

649: Audiology Clinical Practicum. 1 – 3 hour(s) credit (18). Preq., Permission of Instructor. Participation in supervised, basic audiological evaluations, report writing, and other clinical activities leading to supervised auditory and vestibular evaluation, management, and treatment; assignments in primary program and outreach service sites.

650: Research Proposal. 1 hour credit, Preq., Permission of Dissertation Director. The student interacts with the Dissertation Director to develop a research objective for the dissertation.

651: Dissertation. 3 hours credit (15). (Pass/Fail). Preq., Permission of Dissertation Director. Registration in any quarter may be for three semester hours credit or multiples thereof, up to a maximum of nine semester hours credit per quarter.

652: Professional Seminar in Audiology. 1 – 3 hour(s) credit (9). Preq., Permission of Instructor. Current and advanced topics relevant to professional issues in audiology and related fields.

653: Vestibular System Disorders. 0-3-3. Assessment, management, and treatment strategies for individuals with vestibular system disorders. Emphasis on electroneystagmography and postural testing.


655: Clinical Residency in Audiology. 6 hours credit (24). Preq. Fourth year Doctoral Status and Permission of Department Head. Full-time supervised clinical residency in an university-affiliated hospital, private practice, or other appropriate agency or setting.

656: Aural Rehabilitation. 0-3-3. Rehabilitative procedures for hearing impaired children and adults including speech and language, psychosocial and educational deficits, and management.

657: Externship in Audiology. 1 – 4 hour(s) credit (18). Preq., Permission of Department Head. Supervised clinical practicum in an off-campus university-affiliated hospital, private practice, or other appropriate agency.


659: Special Topics. 1 – 3 hour(s) credit (9). Preq., Permission of Faculty Member(s) Involved or Department Head. Selected topics in an identified area of speech and hearing science, audiology, or speech-language pathology.

660: Individual Readings in Audiology or Speech-Language Pathology. 1 – 6 hour(s) credit (18). Preq., Permission of Instructor. Individual problems and research in any of the following general areas of concentration: speech communication, speech-language pathology, speech and hearing science, audiology, theatre arts.

661: Objective for the Thesis. 1 hour credit. Preq., Permission of Thesis Director. The student interacts with the Thesis Director to develop a research objective for the thesis.
689: Directed Research in Audiology. 1 – 3 hour(s) credit (6). Permission of Faculty Member(s) Involved or Dissertation Director. Students pursue individual research projects; enrollment for three hours credit required for development and presentation of dissertation prospectus to the Dissertation Committee.

<table>
<thead>
<tr>
<th>STATISTICS (STAT)</th>
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<tr>
<td>200: Basic Statistics. 0-3-3. Preq., Mathematics ACT score is greater than or equal to 26, or Mathematics ACT score is greater than or equal to 590, or Placement by Exam, or MATH 101. Sample statistics, frequencies, normal and binomial distributions, point and interval estimation, significance testing, linear regression. Statewide Transfer Agreement Course*.</td>
</tr>
<tr>
<td>402: Introduction to Statistical Analysis. 0-3-3. Preq., MATH 101, junior standing and consent of the instructor; non-COES majors only. Understanding and applying: descriptive statistics, p-values, estimation, significance, regression, correlation. Use of packaged computer programs. (G)</td>
</tr>
<tr>
<td>405: Statistical Methods. 0-3-3. Preq., MATH 242,. Data description, discrete and continuous random variables, inferences about means and variances of populations, categorical data, regression, correlation, analysis of variance, computers in data analysis. (G) Credit will not be given for STAT 405 if credit is given for STAT 505.</td>
</tr>
<tr>
<td>505: Statistics for Engineering and Science. 0-3-3. Preq., MATH 242 or equivalent. Random variables and distributions, reliability, quality control, analysis of variance and regression, categorical data analysis, distribution-free methods, use of SAS in data analysis. Credit will not be given for STAT 505 if graduate credit is given for STAT 405.</td>
</tr>
<tr>
<td>506: Regression Analysis. 0-3-3. Preq., STAT 405 or equivalent. Simple and multiple regression, inferences in regression, model formulation and diagnostics, analysis of covariance, nonlinear models, estimation and inference. Use of computers in data analysis.</td>
</tr>
<tr>
<td>507: Analysis of Variance. 0-3-3. Preq., STAT 405 or equivalent. Analysis of variance for standard and unbalanced experimental designs, multiple comparisons, fixed, random, and mixed effects models. Use of computers for data analysis.</td>
</tr>
<tr>
<td>511: Design of Experiments. 0-3-3. Preq., STAT 506 or 507 or 508, or equivalent. Factorial and fractional factorial experiments, incomplete block designs, repeated measures, split-plot response surface, cross-over designs, use of computers for data analysis.</td>
</tr>
<tr>
<td>520: Applied Probability and Mathematical Statistics. 0-3-3. Preq., MATH 245, and a 400-level or above STAT course,. Probability, random variables, discrete and continuous distributions, joint and conditional distributions, distribution of functions of random variables, expectations, moment generating functions.</td>
</tr>
<tr>
<td>550: Practicum in Statistical Consulting. 0-1-1 (3). Preq., STAT 506, 507, 511, or equivalent. Working with clients on statistical problems arising in research, such as modeling, design, data analysis and interpretation.</td>
</tr>
<tr>
<td>606: Linear Statistical Models. 0-3-3. Preq., MATH 244 and 308, and STAT 506, 507,. Generalized inverses, quadratic forms, Gauss-Markov theory, estimability, full rank models, non-full rank models, covariance analysis.</td>
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<tr>
<td>620: Theory of Probability. 0-3-3. Preq., any 500-level STAT Course, and MATH 244. Combinatorial analysis, conditional probability, distribution theory, random variables, random vectors, limit theorems, random walks.</td>
</tr>
<tr>
<td>630: Nonlinear Models. 0-3-3. Preq., STAT 506 or 507, and MATH 244,. Parameter estimation, tests of hypotheses, confidence intervals and regions, measures of curvature, use of computer algorithms.</td>
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<tr>
<td>650: Time Series Analysis. 0-3-3. Preq., MATH 244, and STAT 506,. Spectral analysis, least square filtering, parameter estimation, stationary random processes, ARIMA models, trend and seasonability. ARIMA models, trend and seasonability.</td>
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</tbody>
</table>

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at [http://www.regents.state.la.us/](http://www.regents.state.la.us/) and the school you are transferring to for additional information.*