

- 460: Hydrogeology.** 0-3-3. Preq., GEOL 111, 121, and MATH 220- or 241. 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 estuarine, coastal and continental shelf environments, erosional, depositional and geochemical processes, field and laboratory methods. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.

#### GERMAN (GERM)

- 101: Elementary German.** 0-3-3 each. Conversation, reading, and grammar.
- 102: Elementary German.** 0-3-3 each. Preq., GERM 101. Conversation, reading, and grammar.
- 201: Intermediate German.** 0-3-3 each. Preq., GERM 102. Conversation reading, grammar, and culture.
- 202: Intermediate German.** 0-3-3 each. Preq., GERM 201. Conversation reading, grammar, and culture.
- 301: Survey of German Literature to 1800.** 0-3-3. Preq., GERM 202 or permission of department head.
- 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 PHYSICAL EDUCATION (HPE)

**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).
- 101: Flag Football and Basketball.** 3 3/4-0-2.
- 102: Volleyball and Softball.** 3 3/4-0-2.
- 107: Aerobic Running.** 3 3/4-0-2. (4).
- 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)
- 112: 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.
- 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.
- 119: Basketball and Volleyball.** 3 3/4-0-2.
- 132: Beginning Tap Dance.** 3 3/4-0-2.
- 134: Developmental Conditioning.** 3 3/4-0-2 (6). Designed to improve and maintain a desirable level of aerobic fitness by various forms of appropriate physical activity.
- 141: Beginning Golf.** 3 3/4-0-2. Learning basic golf skills and rules with limited play for beginning student with no experience.
- 143: Fencing.** 3 3/4-0-2.
- 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.
- 161: Square, Folk, and Country/Western Dance.** 3 3/4-0-2.

- 181: Beginning Swimming.** 3 3/4-0-2. Open to students who are unable to swim in deep water.
- 201: Soccer and Volleyball.** 2 3/4-1-2.
- 202: Foundations of Health and Physical Education, Fitness Wellness, and Sports Science.** 0-3 3/4-3. Preq., Sophomore Standing. Designed to provide physical education students with information in the professional areas of HPE, Fitness/Wellness, and Sports Science.
- 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.
- 207: Principles and Practices of Coaching Minor Sports.** 0-2-2. Preq., Sophomore standing. Study of minor sports from viewpoint of teacher and coach.
- 210: Beginning Weight Training.** 2 3/4-1-2 (4).
- 211: Powerlifting.** 2 3/4-1-2 (4).
- 213: Fishing and Boating Safety.** 2 3/4-1-2.
- 214: Hunting and Gun Safety.** 2 3/4-1-2.
- 218: Beginning Karate.** 2 3/4-1-2 (4).
- 221: Light Backpacking.** 3-1-2 (6). Equipment selection, maintenance, and use; first aid and accident prevention; and basic skills for light backpacking, plus participation in three off-campus, outdoor activity sessions.
- 222: Outdoor Adventure.** 3-1-2 (6). Equipment selection, maintenance, and use; first aid and accident prevention; and skills for selected outdoor, adventure activities, plus participation in three off-campus, outdoor activity sessions.
- 231: Beginning Modern Dance.** 2 3/4-1-2.
- 235: Beginning Racquetball.** 2 3/4-1-2.
- 241: Intermediate Golf.** 2 3/4-1-2. Review of strokes, rules, and strategies. Tournament play.
- 250: Gymnastics.** 2 3/4-1-2. HPE Majors Only.
- 251: Materials and Methods in Teaching Elementary School Physical Education.** 1-2 3/4-3. Preq., Sophomore standing, HPE majors and minors only. Methods and materials used in teaching elementary school physical education with practical application.
- 255: Lifetime Sports Series A - Racquet Sports.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in racquet sports.
- 256: Lifetime Sport Series B - Aerobic Conditioning/Strength Conditioning/Aquatics.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques and physiological principles in aerobic, strength, and aquatic conditioning activities.
- 257: Lifetime Sport Series C - Selected Recreational Sports.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies used in selected recreational sports.
- 262: Beginning Bowling.** 2 3/4-1-2.
- 263: Intermediate Bowling.** 2 3/4-1-2. Preq., HPE 262.
- 265: Team Sport Series A - Flag Football/Soccer.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in flag football and soccer.
- 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.
- 272: Beginning Badminton.** 2 3/4-1-2.
- 274: Intermediate Tennis.** 2 3/4-1-2. Preq., HPE 271 or intermediate skill levels. Review of tennis skills, fundamentals, rules, and strategy. Conditioning and class competition.
- 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, interpretations of dance and major contributors to dance.
- 281: Intermediate Swimming.** 2 3/4-1-2. Open to students who can swim in deep water. Stroke development and endurance swimming are emphasized.
- 283: Lifeguard Training.** 1 3/4-2-3. Preq., Level V and VI Swimming Skills. American Red Cross Lifeguard Training. Prepares and certifies

- individuals to assume the duties and responsibilities of lifeguards at swimming pools and protected (non-surf) open water beaches.
- 289: Water Exercise for Fitness.** 2 3/4-1-2 (6). Individualized program to enhance fitness through aquatic activity.
- 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.
- 293: Consumer and Environmental Health.** 0-3-3. Directing the consumer in selection of health services and understanding the effect of environmental pollution.
- 294: The School Health Program.** 0-3-3. A study of the administration and organization of a school health program. Emphasis on establishing such a program and utilization of available resources in school health.
- 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.
- 305: Materials and Methods in Health Education in Schools.** 0-3-3. Preq., HPE 290, 292, 293 and Upper Division. Includes information relative to school health education program with emphasis on methods of instruction and use of materials in schools.
- 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.
- 307: Principles and Practices of Coaching Softball.** 1-2 1/2-2. Preq., Sophomore standing. Emphasis on coaching competitive softball. Fundamental skills of offense and defense, training principles, scouting, strategy, and organization of practice are stressed.
- 308: Principles and Practices of Coaching Baseball.** 0-2-2. Preq., sophomore standing. Emphasis on coaching competitive baseball. Fundamental skills of offense and defense, training principles, scouting, strategies, and organization of practice are stressed.
- 312: Principles and Practices of Basketball Coaching.** 0-2-2. Preq., sophomore standing. Fundamentals of team offense and defense. Training and practice; scouting and strategy; officiating.
- 313: Principles and Practices of Volleyball Coaching.** 0-2-2. Preq., sophomore standing. Fundamentals of team offense and defense. Training and practice; scouting and strategy; officiating.
- 314: Principles and Practices of Track and Field Coaching.** 0-2-2. Preq., sophomore standing. Fundamental movements involved in the different events: staffing for the different events; training and practice; officiating.
- 316: Exercise and Sport Psychology.** 3 3/4-0-3. Preq., junior standing, Upper Division. 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, Upper Division. Analysis of movement based on a knowledge of anatomy and physiology as applied to the function of body mechanics.
- 340: Materials and Methods in Physical Education and Health Education for Elementary Schools.** 5-3-3. Preq., Upper Division. To prepare the teacher for the direction of children in physical education and for developing in children desirable knowledge, skills and attitudes in health.
- 350: Drugs and Sport.** 1-3 3/4-3. Preq., HPE majors or intercollegiate athletes. Develop a knowledge of drugs, effects, sound use, preventive drug abuse, effective programs for drug education and athletes.
- 383: Water Safety Instructor.** 1 3/4-2-3. Preq., HPE 281 or Level V, VI, and VII Swimming Skills. Certifies instructor candidates to teach water safety and swimming courses.
- 401: Recreation and Leisure for the Older Adult.** 0-3-3. Recreation and leisure in an aging society. Leadership, programming, and activities for older adults. Emphasis on programs in a variety of settings.
- 402: Measurement and Evaluation in Health and Physical Education.** 0-2 1/2-2. Preq., senior standing, Upper division. Designed to familiarize the physical educator with statistical methods, measurement of physical parameters, and procedures for effective written and skill test construction and evaluation.
- 405: Sports Medicine and First Aid.** 0-2-2. Preq., upper division. Prevention, treatment and rehabilitation of athletic injuries and first aid procedures.
- 406: Health Aspects of Aging.** 0-3-3. Preq., upper division. 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., upper division. Provides an understanding of individualized exercise prescription design in programs to develop and maintain physical fitness through testing and re-evaluation strategies. (G)
- 408: Physiology of Exercise.** 2-2-3. Preq., upper division. Basic human physiology with emphasis on the physiological changes and residues of exercise. Concurrent with HPE 409.
- 409: Measurement of Physiology Variables.** 2 1/2-0-1. Concurrent with HPE 408, upper division. 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., upper division. The equipping, designing, building, and maintenance of physical fitness and sports facilities. (G)
- 414: Introducing Adapted Physical Education.** 0-3-3. Preq., Upper Division. 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 department approved supervisor.
- 416: Adult Fitness Programming.** 2 1/2-1-3. Preq., HPE 406, upper division. Course is designed to instruct individuals in implementation of fitness programs and management of the various facilities, which include fitness management. (G)
- 417: Motor Development, Health Processes, and Safety Procedures in Education of the Disabled.** 0-3-3. Emphasis on motor development and knowledge of basic health processes and safety procedures needed to work effectively with children and adults having serious disabling conditions.
- 418: Strength and Conditioning for Improved Performance.** 3 3/4-0-3. Preq., HPE 326, 407, 408, 409, upper division. 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)
- 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.
- 457: Materials and Methods in Teaching Middle and Secondary School Physical Education.** 1-2 3/4-3. Preq., HPE 251, upper division-senior standing. Methods and materials used in teaching middle and secondary schools physical education with practical application. (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, athletics, medical, or fitness/wellness programs.
- 516: Education for Physical Fitness.** 0-3-3. Factors involved in developing, maintaining and evaluating physical fitness. Emphasis is placed on individual exercise programs, cardiovascular risk factors, and the beneficial effects of exercise.
- 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.
- 519: Alcohol and Narcotics Education.** 0-3-3. Research and evaluation of the effects of alcohol and narcotics.
- 520: Motor Development and Learning.** 0-3-3. Nature of motor learning and development, factors affecting success in skill learning and improving physical performance.
- 521: Behavior Impairment and Physical Education.** 0-2-2. Preq., HPE 414. Physical education for the severely disabled. Course focuses on disabled individuals with implications for teaching motor activities.
- 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.
- 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.
- 529: Curriculum Construction in Physical Education.** 0-3-3. Basic principles of curriculum construction in the junior high and high school with special emphasis on current trends.
- 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.
- 532: Interscholastic Athletics.** 0-3-3. Prepares the interscholastic coach to understand the purposes of state and national athletic associations, legal issues in sports, and the administration of athletic programs.
- 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.
- 543: Physical Education and Sport Pedagogy.** 0-3-3. The study of the research on teaching, teacher education, and curriculum in physical education and sport.
- 544: Drug Abuse Prevention.** 0-3-3. Major drugs of abuse and the available alternatives to individuals involved in this behavior, particularly during pre-adolescence.
- 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.
- 549: Advanced Theory of Sports, Games, and Athletics.** 1-3 hours credit (3). Consent of instructor. Advanced theory of various sports, games, and athletics will be explored and analyzed.
- 550: Current Trends and Issues in Health, Physical Education, and Sport.** 0-3-3. A survey of recent literature and research to determine current trends and issues in health, physical education, and sports.

#### 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.
- 115: Healthcare Delivery Systems.** 0-3-3. Preq. Minimum grade of "C" in HIM 107. An introduction to organization, financing, and delivery of health care services including accreditation standards, licensure, and regulatory agencies.
- 120: Health Records Professional Practice.** 3-0-1. Preq., Minimum grade of "C" in HIM 107, 108, and 115. Health records in hospitals, nursing homes, hospice, tumor registry, home health, mental health, and specialty hospitals.

- 200: Health Statistics.** 0-2-2. Preq., minimum grade of "C" in MATH 101, and HIM 107. Computation, presentation, and computer application of commonly reported healthcare statistics; vital statistics; and introduction to data collection methods, analysis, and presentation.
- 204: Medical Transcription.** 3-1-2. Preq., a minimum grade of "C" in HIM 103. Introduction to transcription of record forms and supervision of the medical transcription function.
- 207: Coding and Classifying Diseases and Procedures.** 0-3-3. Preq. HIM 280. Basic coding using the latest edition of the International Classification of Diseases.
- 208: Laboratory Practice in Coding.** 3-0-1. Coreq., HIM 207. Practical application and laboratory practice in coding using ICD-9-CM.
- 217: Healthcare Reimbursement.** 0-3-3. Preq., or Coreq., HIM 218 and 219. A study of systems used for professional and institutional reimbursement in various healthcare settings.
- 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 methods.
- 224: Continuous Quality Improvement, Risk Management, and Utilization Review.** 0-3-3. Preq. Minimum grade of "C" in HIM 107. Techniques of continuous quality improvement, utilization review, risk management, and case management.
- 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.
- 228: Health Information Services.** 0-2-2. Preq. HIM 115, 224 and MGMT 201 or 310. Application of supervisory techniques to health information services.
- 229: Introduction to Health Information Technology.** 0-2-2. Preq., HIM 107. Concepts of computer technology related to healthcare and the tools and techniques for collecting, storing, and retrieving healthcare data.
- 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.** 6-0-2. Preq., Minimum of 2.25 GPA in the HIT curriculum. Coreq., HIM 277, 278, or 279. All other HIT course work must be complete. Intensive study of the principles of various coding systems through practical application.
- 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 within a 101-200 mile radius of Ruston. Application and supervision fee required
- 279: 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
- 280: Introduction to Medical Science.** 0-3-3. Preq., BISC 225 and 227, and minimum grade of "C" in HIM 103. A study of the nature and cause of disease.
- 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.
- 319: Data Management in Healthcare Laboratory.** 3-0-1. Preq., HIM 312. Coreq., HIM 318. Practical application of data management techniques in healthcare.

- 330: Systems Analysis In Healthcare.** 0-3-3. Preq., HIM 312. Study of the clinical and business information applications in health care. Concepts, techniques, and tools associated with the systems development life cycle are included.
- 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.
- 425: Information Systems in Healthcare.** 0-2-2. Preq., HIM 330, HIM 318 and 319. Design, development, and implementation of health information systems.
- 430: Health Information Management.** 0-3-3. Preq., MGMT 310, 470, and a minimum grade of "C" in all HIM 100- and 200-level courses in curriculum. Management principles applied to the administration of health information systems.
- 431: Laboratory Practice in Administration of the Health Information System.** 3-0-1. Preq. or Coreq., HIM 430. Laboratory practice using evaluation procedures to assist in problem-solving and decision-making.
- 477: Practica/Internship/Cooperative Education in Health Information Management.** 40-0-8. 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
- 478: Practica/Internship/Cooperative Education in Health Information Management.** 40-0-8. 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 101-200 mile radius of Ruston. Application and supervision fee required
- 479: Practica/Internship/Cooperative Education in Health Information Management.** 40-0-8. 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
- 499: Special Problems:** 1-4 semester credit hours. Preq., Junior standing and consent of the instructor. Selected topics in an identified advanced area of study in Health Information Management.

### 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.
- 102: World History since 1500.** 0-3-3. A survey of civilization of the world since 1500. Major emphasis on Western Civilizations.
- 103: Foundations of Ancient Civilization.** 0-3-3. Interdisciplinary study of major works of ancient Greek and Roman civilization. For HONORS Program students only. Satisfies course work in HIST 101. Also listed as ENGL 103.
- 104: Foundations of Medieval and Renaissance Civilization.** 0-3-3. Interdisciplinary study of major works of Medieval and Renaissance civilization. For HONORS Program students only. Satisfies course work in HIST 102. Also listed as ENGL 104.
- 201: History of the United States, 1492-1877.** 0-3-3. A survey of American history from discovery through Reconstruction.
- 202: History of the United States, 1877 to the Present.** 0-3-3. A survey of American history from Reconstruction to the present.
- 203: Foundations of Modern Civilization.** 0-3-3. Interdisciplinary study of major works of modern civilization. For HONORS Program students only. Satisfies course work in HIST 102. Also listed as ENGL 203.
- 204: Foundations of American Civilization.** 0-3-3. Interdisciplinary study of major works of modern civilization. For HONORS Program students only. Satisfies course work in HIST 201 or 202. Also listed as ENGL 204.
- 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.

- 395: Junior Seminar in History.** 0-3-3 (6). Introduction to 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.
- 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)
- 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 study of English political, social, and economic institutions and policies in the eighteenth, nineteenth, and twentieth centuries. (G)
- 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)
- 410: History of Modern Russia.** 0-3-3. A survey of Russian history with special emphasis on twentieth century developments.
- 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)
- 423: The Civil War and Reconstruction.** 0-3-3. A study of American history from the beginning of the Civil War to 1877. (G)
- 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. 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. 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. 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. A history of the Arabic world from the fifteenth century to the present. (G)
- 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)
- 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)
- 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)
- 447: History of China.** 0-3-3. Traces the development of Chinese civilization from its earliest origins to the present.
- 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 to 1960, emphasizing the expansion of America's role in world affairs.
- 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 American History.** 0-3-3. A study of women's contributions to American history with special emphasis on the role of women in contemporary society. (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)
- 481: The British Empire.** 0-3-3. A study of the rise and fall of the British Empire, with primary emphasis on South Africa, India, Canada, Australia, and New Zealand.
- 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.
- 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.
- 526: Seminar in American Civilization.** 0-3-3 (6). Intensive study of a restricted topic in the social, cultural, and intellectual history of the United States, 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.
- 560: Seminar in Military History.** 0-3-3 (6). Intensive study of a topic in the history of military institutions, wars, and warfare, 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.

#### 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.**

- 127: Orientation.** 0-1-1 Introduction to roles and responsibilities of College students as preparation for professional careers.
- 267: Practica in Human Ecology.** 1-3 hours credit (3). (Pass/Fail). Preq., Consent of director of practica. Structured experiences in specialized areas of human ecology. Application required.
- 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.
- 398: Seminar in Human Ecology.** 0-1-1. A study of the diverse field of human ecology, including historical perspective, theoretical framework, career opportunities, and current and future trends.
- 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.
- 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)
- 415: Seminar in Family and Consumer Sciences Student Teaching.** 0-1-1. Coreq., EDUC 416. Investigation, analysis, and discussion of current problems, philosophy, and trends in family and consumer sciences education.
- 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.
- 467: Professional Practica in Human Ecology.** 1-3 hours credit (6). (Pass/Fail). Preq., consent of instructor or director of practica. Structured experiences in specialized areas of human ecology. Application required.
- 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, 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). Multi-quarter project Preq. or Coreq., HEC 504 or Statistics. Directed study of adviser approved topics. May be repeated for credit with Dean's permission.
- 507: Graduate Seminar.** 0-1-1 (3). Seminar designed to increase effectiveness of professional written and oral communications, as well as increase knowledge of research.
- 515: Applied and Natural Sciences Teaching Practicum.** 10-1-3. Principles and techniques in teaching a specific area of applied and natural sciences at the post secondary level. Students work with faculty and undergraduate courses in area of specialty. Application required.
- 546: Microcomputer Applications in Professional Practice.** 0-3-3. Preq., one graduate-level statistics course, and M&CS 246 or satisfactory score on computer competency exam. Use of software programs in professional and research settings.
- 551: Research and Thesis.** 3 hours credit or multiples thereof. Maximum credit is 6 hours. Preq. or Coreq., HEC 504 and Statistics.
- 567: Advanced Practice in Human Ecology.** 15-0-3. Preq., graduate student in Human Ecology. Advanced practice experiences enabling students to apply theory in practice settings.

#### INDEPENDENT STUDY (ISTY)

- 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; HTML and JAVA applications; analysis and solution of engineering problems.
- 201: Industrial and Systems Engineering.** 0-3-3. Preq., sophomore standing. An overview of the application of engineering analysis and design principles to industrial and human activity systems.
- 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.
- 301: Industrial Cost Analysis.** 0-2-2. Accounting, budgeting, and control of manufacturing costs.
- 400: Engineering Statistics I.** 0-3-3. Preq., MATH 242. Application of probability and distribution theory to various branches of engineering. Confidence intervals, hypothesis testing.
- 401: Engineering Statistics II.** 0-3-3. Preq., INEN 400. Regression analysis, analysis of variances, quality control.
- 402: Introduction to Operations Research.** 0-3-3. Coreq. INEN 400. Linear programming, dynamic programming, project scheduling, network flow, inventory control.
- 404: Operations Research.** 0-3-3. Preq., INEN 400, 402. Industrial engineering applications of queuing theory, critical path methods, project evaluation review technique (PERT), game theory, and inventory systems.
- 405: Industrial Scheduling.** 0-3-3. Techniques for scheduling machines, jobs, personnel, and material in industrial environment.
- 406: Computer Applications in Production Systems.** 0-3-3. Preq., INEN 402. The planning, analysis, and control of production systems. Emphasis is upon high volume discrete production and flexible manufacturing systems.
- 407: Simulation.** 0-3-3. Preq., INEN 400, 404. Discrete simulation methodology, emphasizing statistical basis for simulation modeling and modeling experimentation. Use of simulation modeling language to illustrate model architecture, inference, and optimization.
- 408: Manufacturing Facilities Planning.** 0-3-3. Preq., MEEN 321. Detail planning for facilities location, product development, equipment and manpower requirements, production line analysis, assembly line balancing.
- 409: Work Design.** 3-2-3. Preq., MEEN 321, INEN 400. Methods engineering, work measurement, production standards, workplace analysis and design, ergonomics.
- 410: Manufacturing Systems Management.** 0-3-3. Preq., INEN 400. 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, 410, or consent of program chair. Open-ended design problem using industrial engineering skills including work measurement, human factors, quality control, facilities planning, plant layout, operations research, etc.
- 412: Industrial Engineering Design II.** 0-2-2. Preq., INEN 411. Continuation of INEN 411.
- 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.
- 425: Industrial Safety.** 0-3-3. Principles of domestic and industrial safety.
- 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)
- 499: Technical Enrichment Course.** 3-0-1. Pass/Fail. Varying new technologies. Does not count towards graduation in Industrial Engineering. Contact the program chair for more information.
- 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.
- 506: Dynamic Programming.** 0-3-3. The principles of optimality. One- and two-dimensional processes Markovian decision processes. Lagrange multiplier technique.
- 507: Engineering Administration.** 0-3-3. Organization of the engineering function. Measurement and evaluation of engineering activities. Project management and control. Development of engineering managers.
- 508: Human Factors in Engineering Systems.** 3-2-3. Testing and instrumentation of human response to environmental conditions. Designing equipment, work place and work environment for economy and effectiveness of human work systems.
- 509: Advanced Engineering Economy.** 0-3-3. Effect of income tax on decision making. Retirement and replacement analysis. Capital management. Elements of economic measurement, analysis and forecasting in the face of uncertainty.
- 510: Advanced Work Measurement.** 3-2-3. Advanced methods improvement and work measurement techniques. Design of complex work systems. Work sampling, construction of standard data and mathematical models of work systems.
- 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.