Kinesiology (KIN)

KIN 200 - CONTEMPORARY NUTRITION
Semester Hours: 3
Introduction to the principles of nutrition as they relate to the growth, development, and maintenance of the human body throughout the lifespan. Emphasis is placed on the classes of nutrients, weight management, and nutritional planning.

KIN 205 - FIRST AID & CPR
Semester Hour: 1
Students will focus on recognizing emergency situations. First Aid and CPR also provides skills and knowledge necessary in caring for injuries or sudden illness.

KIN 210 - ATHLETIC INJURY, PREVENTION, AND CARE
Semester Hours: 3
Presents the knowledge and techniques necessary to prevent and/or care for common athletic injuries. For coaches, athletes, and those working in recreation, physical education, or athletics.

KIN 215 - FIRST RESPONDER AND PROFESSIONAL CPR
Semester Hours: 2
Learn the concepts and skills needed to function as a First Responder and Professional Rescuer. Emphasis is placed on preparing for, recognizing, and providing emergency care in various situations where needed. Additionally, this course fully addresses the objectives in the U.S. Department of Transportation's National Standards Curriculum.

KIN 240 - HEALTH AND WELLNESS CONCEPTS
Semester Hours: 3
This course provides students with an overview of individual and societal health and wellness and the impact of lifestyle choices. Laboratory experiences provide opportunity for assessment of individual health and fitness behaviors. Topics covered include: wellness, physical fitness, behavior modification, weight management, stress management, disease prevention, addictive behavior and sexual health.

KIN 250 - ESSENTIALS OF PERSONAL TRAINING
Semester Hours: 2
This course is designed to provide theoretical knowledge and practical skills in preparation for a national certification exam in personal training. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the client-trainer relationship, conducting health and fitness assessments, and designing and implementing appropriate exercise programming.

KIN 260 - FOUNDATIONS OF KINESIOLOGY
Semester Hours: 3
An introductory course for students in the Kinesiology major. The course will provide an overview of the Kinesiology field, including all subdisciplines and an in-depth discussion of teacher v non-teacher career choices. The history and development of physical education, exercise science, and sport studies will be covered, as well as issues and trends in physical education, exercise science, and sport studies.

KIN 265 - INTRODUCTION TO SPORT MANAGEMENT
Semester Hours: 3
This 3 hour course provides the student with the knowledge of sport management and administration in both athletics and leisure-based sports. Topics include management concepts, roles and responsibilities, fiscal management, fundraising, legal issues, event scheduling, and decision making.

KIN 290 - EXERCISE TECHNIQUES AND LEADERSHIP
Semester Hours: 3
This course provides a practical guide in leadership for group and individual exercise settings. Critical evaluation of a safe fitness environment, adult physical activity programs to promote health, and exercise techniques according to the American College of Sports Medicine and National Strength and Conditioning Association are included.

KIN 300 - NUTRITION FOR FITNESS AND SPORT
Semester Hours: 3
Explores the theoretical and applied nutritional sciences as they relate to fitness and sport. Students will develop practical skills applicable to solving nutritional problems in exercising populations. Nutritional requirements and practices related to general fitness, athletic performance, and special needs individuals will also be covered. Prerequisite: KIN 200.
KIN 315 - STRENGTH TRAINING AND CONDITIONING
Semester Hours: 3

This course provides a comprehensive overview of strength and athletic conditioning. Emphasis is placed on the exercise sciences (including anatomy, exercise physiology, and biomechanics) and exercise technique, program design, organization and administration, and testing and evaluation. Additionally, this course is designed to prepare students for the nationally accredited Certified Strength and Conditioning Specialist (CSCS) certification exam. Prerequisites: KIN 210, KIN 290, KIN 327 (C or better).

KIN 327 - INTRODUCTION TO EXERCISE PHYSIOLOGY
Semester Hours: 3

An introduction to the response and adaptations of the body systems to exercise and physical activity. Prerequisites: KIN 260, BYS 215 and BYS 216 with a grade of C- or better Co-requisite: KIN 328.

KIN 328 - EXERCISE PHYSIOLOGY LAB
Semester Hour: 1

Exercise physiology lab experience to accompany the introduction to exercise physiology course lectures. The course meets two hours weekly for one credit hour. Co-requisite: KIN 327.

KIN 340 - SCHOOL AND COMMUNITY HEALTH
Semester Hours: 3

Obtain information and skills related to school and community health programs with an emphasis on health instruction, strategies, and resources. Survey the components of a school health program: school health services, healthful school environment, principles of physical and movement education, nutrition services, counseling and social services, parent/community involvement, health promotion for staff. Examine the core functions of public health, prevention of diseases and injuries, health needs of special populations, and functions of various organizations.

KIN 351 - EXERCISE TESTING AND PRESCRIPTION FOR HEALTHY POPULATIONS
Semester Hours: 3

Provides students with techniques that evaluate aerobic capacity, muscular strength and endurance, flexibility, and body composition. The development of exercise prescriptions based on evaluation results will be emphasized. Prerequisites: KIN 327 (C- or better grade) and KIN 328.

KIN 352 - TESTING AND PRESCRIPTION FOR SPECIAL POPULATIONS
Semester Hours: 3

This advanced-level course integrates both lecture and laboratory to prepare students with the knowledge and skills necessary to conduct fitness evaluations, exercise prescriptions, and risk stratification of at-risk individuals. Specific emphasis will be placed on the administration of safe fitness testing using protocols published by ACSM for the health related components of physical fitness. Prerequisites: KIN 351.

KIN 361 - TEACHING TEAM SPORTS
Semester Hours: 3

Teaching methods and strategies of sports that require more than one participant. While knowledge of how to play the sport will be taught, emphasis will be placed on the organization, management, and assessment of skills in activities such as, but not limited to soccer, handball, and basketball.

KIN 362 - TEACHING INDIVIDUAL ACTIVITIES
Semester Hours: 3

Teaching methods and strategies for games involving individuals rather than a team. Emphasis will be placed on the organization, management, and assessment of skills in activities including, but not limited to, aerobic dance, cross country/trail running, and tumbling/gymnastics.

KIN 363 - TEACHING FITNESS AND WELLNESS
Semester Hours: 3

Learn to perform and instruct a variety of fitness activities. Emphasis will be placed on performing fitness skills and on the methods and techniques for instructing and teaching specific fitness activities. Techniques for evaluating the knowledge and skills of the activities will also be stressed.

KIN 370 - ADAPTED PHYSICAL EDUCATION
Semester Hours: 3

Develop knowledge of current concepts and trends in adapted physical education as well as the ability to plan and implement a physical education program designed to meet the unique needs of individuals.

KIN 371 - ADAPTED FITNESS
Semester Hours: 3

Develop knowledge of current concepts and trends in adapted physical fitness as well as the ability to plan and implement fitness and wellness programs designed to meet the unique needs of individuals, particularly those with disabilities and special needs. Prerequisite: KIN 260.
KIN 400 - NUTRITION IN HEALTH AND DISEASE
Semester Hours: 3
This course will provide students an opportunity to examine the role of epigenetics in disease development, the impact of weight stigma on health and the makeup of a healthy relationship with food and exercise. Having knowledge on the complex components that make up a person's body shape and size will allow students to more accurately assess health status. Prerequisite: KIN 200 (C- or better).

KIN 418 - STRUCTURAL AND FUNCTIONAL KINESIOLOGY
Semester Hours: 3
This course will provide development of knowledge of anatomic systems related to purposeful movement of the human body. Thorough instruction of the structure and function of musculoskeletal system will be provided. Prerequisites: BYS 215 and BYS 216.

KIN 419 - EXERCISE AND SPORT BIOMECHANICS
Semester Hours: 3
This course will provide an advanced understanding of biomechanical conditions of human movement as well as knowledge and skills needed to analyze and evaluate human motor performance in order to prescribe appropriate interventions for optimized application to rehabilitation and sports performance. Students will learn to appropriately represent kinematic and kinetic quantities as vectors and use vectors, vector addition, and vector resolution to enhance the understanding of basic mechanical concepts. Prerequisites: BYS 215, BYS 216, and PH 101; and either KIN 418 or BYS 402.

KIN 421 - INSTRUCTIONAL APPROACHES TO SPORT PEDAGOGY
Semester Hours: 3
This class is designed to expand and enrich the teaching repertoire. Special emphasis will be given to how selected models of teaching can be used to achieve multiple outcomes of teaching in physical education and other contexts (e.g., physical activity programs & youth sport). Additionally, the course will increase awareness in other instructional areas related to the profession (teaching underserved youth, youth sports programs, etc.). Prerequisites: KIN 361 or KIN 362 or KIN 363.

KIN 428 - ENVIRONMENTAL EXERCISE PHYSIOLOGY
Semester Hours: 3
KIN 428 will examine how the human body responds and adapts to diverse forms of environmental stress during exercise. The course will focus on the responses and adaptations that occur from performing exercise under various environmental conditions. Prerequisite: KIN 327.

KIN 445 - PRINCIPLES OF COACHING
Semester Hours: 3
Gain knowledge and skills specific to coaching: developing a coaching philosophy and objectives, motivating athletes, managing a team. Emphasis is placed on sport at the high school and club level with consideration given to coaching youth, recreational, and intercollegiate. Coursework provides preparation for the American Sport Education Program (ASEP) Coaching Principles exam which is required by the Alabama High School Athletic Association (AHSAA).

KIN 450 - EXERCISE PHYSIOLOGY INTERNSHIP
Semester Hour: 1
Designed to provide on-site practical experience in a wellness/fitness program, physical therapy clinic, and/or a cardiac rehabilitation facility for Kinesiology-Exercise Science majors. Prerequisites: KIN 351.

KIN 451 - RESEARCH IN EXERCISE SCIENCE I
Semester Hours: 3
Initial capstone course (part of a two-course sequence) providing a broad and balanced background in various types of research methods and the development of a research proposal. Development of a research question, hypothesis, and research methodology. Application of computers will be used to search databases for relevant literature. Completion of an Institutional Review Board application is required. Prerequisites: KIN 351.

KIN 452 - RESEARCH IN EXERCISE SCIENCE II
Semester Hours: 3
Final capstone course (part of a two-course sequence) in which students must integrate and apply skills acquired throughout the program to complete a comprehensive research project. The student will complete the research project proposed in KIN 451 by recruiting research participants to collect data, writing the results and conclusions for a manuscript. Results will be prepared for publication and presented in a professional setting. Prerequisites: KIN 451 and PY 300 (with concurrency).

KIN 455 - MOTOR LEARNING AND DEVELOPMENT
Semester Hours: 3
Study the principles and practices that affect the learning and development of motor skills; theories of motor learning, motor control, and development; lifespan motor development perspective related to performing motor and sport skills; and professional applications of motor learning and development in exercise science, athletic training, and physical education.
KIN 457 - MEASUREMENT AND EVALUATION IN PHYSICAL ACTIVITY
Semester Hours: 3

Measure and evaluate learning or skill improvement based on accepted standards. Gain an understanding of the logic behind measurement instruments in order to better interpret and implement results and to achieve improved learning or physical fitness improvement. These methods of measurement and evaluation are important skills in health, physical education, and exercise science fields. Prerequisite: KIN 351 or permission of instructor.

KIN 460 - SPECIAL TOPICS KINESIOLOGY I
Semester Hours: 3

This course is intended to cover a variety of topics based on emerging topics in Kinesiology. Potential course offerings will include environmental exercise physiology, cardiovascular exercise physiology, childhood and adolescent exercise physiology, emerging topics in sport & fitness management, and expanded nutrition content. Prerequisites: KIN 327 or instructor permission.

KIN 461 - SPECIAL TOPICS KINESIOLOGY II
Semester Hours: 3

This course is developed to cover a variety of topics based on emerging topics in Kinesiology. Potential course offerings will include environmental exercise physiology, cardiovascular exercise physiology, childhood and adolescent exercise physiology, emerging topics in sport & fitness management, and expanded nutrition content. Course content will be offered in rotation. Prerequisites: KIN 327 or instructor permission.

KIN 462 - TEACHING PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS
Semester Hours: 3

Physical education teacher candidates will acquire the ability to understand, recognize, analyze, and demonstrate the range of teaching skills employed by successful physical educators in the preschool and elementary setting. Emphasis is placed on understanding the theoretical implications of different teaching skills and the contexts in which they are effective. Teacher candidates will design lessons that allow for maximum student participation while remaining aligned with Alabama Consent Standards. Field experience is required. Candidates will observe, participate in, and teach lessons in physical education classrooms. Prerequisite: Admission to the Teacher Education Program. Prerequisite: KIN 370.

KIN 463 - PSYCHOLOGICAL ASPECTS OF SPORT
Semester Hours: 3

Provides students with an introductory experience in sport, exercise, and fitness psychology based on the latest research and practice. Practical examples and case studies for individual and group sports are provided. The aim is to bridge science and practice to teach students the role of a sport and fitness psychologist.

KIN 464 - HEALTH AND PE FOR THE ELEMENTARY TEACHER
Semester Hours: 2

The purpose of this course is to help the future elementary classroom teacher learn to appreciate, plan, organize, and conduct (if called upon to do so) a quality physical education program for children in grades pre-K-5. The pre-service teacher (PT) will be provided background knowledge about physical education content, skill themes and movement concepts, how to teach skill themes and movement concepts, and fitness concepts.

KIN 465 - TEACHING PHYSICAL EDUCATION IN THE SECONDARY SCHOOL
Semester Hours: 3

Physical education teacher candidates will acquire the ability to understand, recognize, analyze, and demonstrate the range of teaching skills employed by successful educators in the secondary setting.

KIN 473 - SPORT AND FITNESS MANAGEMENT
Semester Hours: 3

The course is an in-depth analysis of the relationship of sport and management. The study of sport includes sporting goods manufacturers; fitness centers; recreation departments; broadcasting; Little League teams; and high school, NCAA, and professional leagues. The study of management follows the four functions of management: planning, organizing, leading, and controlling. Prerequisite: KIN 265.

KIN 490 - EXERCISE SCIENCE INTERNSHIP
Semester Hours: 6

Designed to provide on-site practical experience in a wellness/fitness program, physical therapy clinic, and/or a cardiac rehabilitation facility for Kinesiology-Exercise Science majors. Prerequisites: KIN 351, senior standing.