

Kinesiology (KIN)

KIN 106C Topics in Conditioning 1 Hour

KIN 310 Physiological Basis of Conditioning 3 Hours

Explore the current state of health and fitness, health-related components of fitness, and ways that the human body responds to exercise and physical activity. Discuss the importance of exercise and physical activity for improving overall wellness, including physical and mental health, prevention, and treatment of chronic disease, and how to apply the principles of conditioning.

KIN 311 Water Safety Instruction and Lifeguard Training 3 Hours

Principles and practical application of water safety instruction and lifeguard training, personal water safety skills sets, professional rescues, first aid, and CPR/AED programs. Successful completion of course sessions, activities, lectures, skill development and evaluation requirements will qualify the student to test for certifications from nationally recognized safety agencies.

KIN 311K Sport Psychology 3 Hours

Through the materials presented in this course, become familiar with the fundamental principles of sport and social psychology and their impact on sports performance and athlete well-being. Develop life-skills, such as, self-regulation, productive responses to adversity, stress-management, the setting of goals and achieving them, interpersonal communication, and leadership.

KIN 312 Topics in Kinesiology: Issues 3 Hours

Analysis and discussion of current issues within the discipline of kinesiology.

KIN 312.2 Care and Prevention of Athletic Injuries 3 Hours

Principles of athletic training, including mechanisms, signs and symptoms, treatments, and basic rehabilitation of athletic injuries and illnesses.

KIN 312.3 Fundamentals of Coaching 3 Hours

An introduction to the principles and practices of coaching as they relate to the integration of sports science, practice structure and design, and the development of a coaching philosophy. Involves group work and field experience with youth athletic organizations.

KIN 312.4 Philosophy and Leadership in Sport Physical Activity 3 Hours

KIN 312.5 Sport Industry in America 3 Hours

Introduction to the history, growth, and diversity of the sport industry in school settings and the world of business.

KIN 312G Golf Instruction 3 Hours

Designed to train students to teach the game of golf.

KIN 312M Management of Physical Activity and Sport Programs 3 Hours

Designed for physical culture and sports, applied movement science, health education, and kinesiology majors. Introduction to the purpose and function of sport and sport management in society, including management, marketing, events, and other components of the field.

KIN 213 Topics in Safety Information and Procedures 2 Hours

Factors affecting human safety; techniques and procedures to promote and ensure safe living.

KIN 213.1 First Aid 2 Hours

KIN 213.2 Water Safety Instruction 2 Hours

Trains instructor candidates to teach courses in swimming and water safety by developing their understanding of how to use the course materials, conduct training sessions and evaluate participants' progress. Students will be introduced to several swimming strokes, springboard diving, cardiovascular conditioning, exercise physiology, nutrition, personal safety. Elementary rescue skills and basic snorkeling techniques. Culminates in American Red Cross certification.

KIN 213.3 Lifeguarding 2 Hours

KIN 213.4 Lifeguarding Instruction 2 Hours

KIN 314 Children's Movement 3 Hours

Covers skills to support positive, effective physical education and to implement well-planned and stimulating physical activity for children. Focus on integrating academic content with physically active classrooms. Subjects include principles of movement and motor development in children, curriculum, legislation and policy, physiological principles, learning principles, coordinated school health (CSH), and comprehensive school physical activity programming (CSPAP).

KIN 315 Motor Learning 3 Hours

Psychological factors affecting performance and acquisition of motor skills.

KIN 316 Structure and Organization of Sport Programs 3 Hours

Introduction to sport management and effective organizational behavior for sport programs. Analysis of the dynamic management process necessary for the improvement of organizational productivity.

KIN 217 Advanced Scuba Diving Leadership 2 Hours

Designed to prepare experienced scuba divers to instruct, organize, and conduct safe, appropriate-level dives for certified divers. Also designed to prepare students to apply for certification as a National Association of Underwater Instructors (NAUI) Assistant Instructor or Divemaster.

KIN 119 Topics in Movement Competence 1 Hour

Designed for applied movement science, health education, and kinesiology majors. Introduces a variety of movement and dance activities that can be used to teach rhythm to youth, with an emphasis on grades K-6.

KIN 119.1 Archery 1 Hour

KIN 119.10 Conditioning 1 Hour

Basic principles involved in designing a sound conditioning program emphasizing resistance training techniques.

KIN 119.11 Rhythmic Activities and Dance 1 Hour

Designed for applied movement science majors, and kinesiology and health education majors. Introduces a variety of movement and dance activities that can be used to teach rhythm to youth, with an emphasis on grades K-6.

KIN 119.12 Gymnastics 1 Hour

KIN 119.13 Manipulative Activities 1 Hour

KIN 119.14 Tennis 1 Hour

Introduction to methods, progressions, strategies, and teaching cues appropriate for playing, teaching, and coaching basic tennis.

KIN 119.15 Volleyball 1 Hour

Introduction to methods, progressions, and teaching cues appropriate for playing, teaching, and coaching basic volleyball.

KIN 119.16 Social Dance: Leads 1 Hour

Introduction to popular social dances, including swing, waltz, bachata, nightclub two-step, cross-step waltz, salsa, west coast swing, and tango. Emphasis on connecting with a dance partner and the art of leading and following. Must register for the role you want to learn: lead or follow.

KIN 119.17 Basketball 1 Hour

Designed for applied movement science majors, and kinesiology and health education majors. Introduces methods, progressions, strategies and teaching cues appropriate for playing, teaching, and coaching basic basketball.

KIN 119.18 Adventure Activities 1 Hour

Acquisition and knowledge of basic skills needed to participate in outdoor/adventure activities. Examines methods, progressions, drills, and performance cues appropriate for participating in and leading outdoor/adventure activities. Includes off-campus activities. Students will need to demonstrate basic swimming skills during the first week of class.

KIN 119.19 Kinesthetic Awareness and Core Body Development 1 Hour
Introduction to basic movement skills from simple to more complex, and how they relate to more advanced sport skills through developmental gymnastics, yoga, Pilates, and martial arts.

KIN 119.2 Ballet 1 Hour

KIN 119.20 Social Dance: Follows 1 Hour

Introduction to popular social dances, including swing, waltz, bachata, nightclub two-step, cross-step waltz, salsa, west coast swing, and tango. Emphasis on connecting with a dance partner and the art of leading and following. Must register for the role you want to learn: lead or follow.

KIN 119.3 Bowling 1 Hour

KIN 119.4 Diving 1 Hour

KIN 119.5 Fencing 1 Hour

KIN 119.6 Golf 1 Hour

KIN 119.7 Scuba Diving 1 Hour

KIN 119.8 Swimming 1 Hour

Designed for kinesiology and health education majors. Development of swimming techniques including instruction in seven swimming strokes, springboard diving, cardiovascular conditioning, exercise physiology concepts, nutrition, personal safety, elementary rescue skills, CPR/AED and basic snorkeling techniques. Provides preparation for American Red Cross certification.

KIN 119C Aiding for Social Dance 1 Hour

Supervised aiding in social dance leads/follows courses.

KIN 219D Movement Analysis: Dual Activities 2 Hours

Designed for applied movement science, health education, and kinesiology majors. Application of biomechanical and motor learning principles to selected movement activities, with particular emphasis on dual sports. Includes physical activity.

KIN 219G Advanced Golf 2 Hours

Designed for the advanced golfer. Includes technical swing analysis and instruction, course management and course play, and tournament play.

KIN 219K Topics in Athletics 2 Hours

Knowledge and skills required for officials, coaches, and athletic trainers of interschool sports.

KIN 219K.1 Coaching 2 Hours

KIN 219K.2 Officiating 2 Hours

KIN 219K.3 Introduction to Athletic Training 2 Hours

Designed for athletic training majors. An introduction to athletic training principles and theories, including the prevention, recognition, and management of athletic injuries and illnesses. Includes basic skill development in areas such as first aid, emergency care, and supportive taping, wrapping, and bracing. Requires completion of a one-day CPR and AED (BLS) course outside of class time.

KIN 219L Teaching Social Dance 2 Hours

Examine social dance and social dance pedagogy. Explore new dances, higher-level partnering, and skills for teaching social dance in one-on-one and group contexts.

KIN 219M Advanced Running 2 Hours

Explores various advanced aspects of running training regimens, with emphasis on interval training, fartlek, speed play, long slow distance used in competitive running. Includes functional assistive training movements: flexibility and stretching, plyometrics and bounding.

KIN 219N Advanced Volleyball 2 Hours

For those with high levels of skills and knowledge of multiple offenses and defenses. Explores various aspects of competitive volleyball with emphasis on strategic utilization of defenses used in interscholastic and intercollegiate competitive teams.

KIN 219P Advanced Swimming 2 Hours

Designed for the advanced swimmer. Includes technical stroke analysis on four power strokes and exposure training/conditioning programs used by interscholastic and intercollegiate competitive programs. Expanded emphasis is on body form, stroke efficiency, and conditioning in all strokes.

KIN 119R, 219R, 319R, 419R, 519R, 619R, 719R, 819R, 919R Topics in Kinesiology 1-9 Hours

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the study abroad adviser in the Department of Kinesiology. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program.

KIN 219S Movement Analysis: Individual Activities 2 Hours

Application of movement skill analysis and biomechanical principles, physical laws of movement, fitness training principles and programs, exercise physiology, performance techniques, and skill progressions in individual activities and sport.

KIN 219T Movement Analysis: Team Activities 2 Hours

Application of scientific and psychosocial aspects of team sports, basic mechanical principles, and basic progressions relevant to performing and teaching selected team sport skills. Students also learn basic strategies and tasks related to coaching and organizing a team.

KIN 320 Applied Biomechanics of Human Movement 3 Hours

Designed to provide students with an understanding of applied scientific analysis of movement. Examines the physiological, structural, and mechanical bases for human movement, with examples drawn from sport and rehabilitation. Lectures concentrate on a scientific approach to mechanisms underlying human movement and to strategies and practices of clinical and sport applications. Laboratory sessions focus on both theoretical and applied aspects of selected mechanical concepts.

KIN 321 Theory of Human Performance 3 Hours

Designed for applied movement science, health education, and kinesiology majors. Examines foundational knowledge of theories of human performance and development and the concomitant changes that occur during an individual's lifespan. Explores interactive theories of the associated physiological, biomechanical, and cognitive disciplines that explain the control systems of the human body while in motion and subsequent development.

KIN 321M Motor Development and Performance 3 Hours
A review of movement skill progressions with emphasis on the processes that underlie changes in movement competence. Typical growth and maturation from birth to adulthood serves as the metric against which to identify atypical development. The principles underlying motor skill changes are applied to teaching, coaching, and clinical applications.

KIN 322 Diagnosis and Evaluation of Fitness 3 Hours
Covers the science behind assessing physical fitness, and the role of physical activity and exercise in prevention and rehabilitation of cardio-respiratory and metabolic diseases.

KIN 424K Applied Human Anatomy 4 Hours
Combines the study of systematic and regional human anatomy. Includes applications of the skeletal system, and attachments and actions of muscles, with an emphasis on the mechanics of support and motion and their clinical applications.

KIN 425K Physiology of Exercise 4 Hours
Application of principles of physiology to muscular activities and an examination of physiological responses and adaptations to both acute and chronic exercise.

KIN 226 Advanced Weight Training 2 Hours
Explores various advanced techniques of weight training, with emphasis on the lifts used in the competitive strength sports of weightlifting and powerlifting. Includes plyometrics and functional training movements for athletic enhancement.

KIN 326K Biomechanical Analysis of Movement 3 Hours
Study of the principles of equilibrium, force, and motion as applied to humans. Includes applications to human movement and to biological tissues and structures, with emphasis on practical applications (e.g., human performance, causes/prevention of injury etc.).

KIN 127D, 227D, 327D, 627D Fieldwork: Aiding 1,2,3,6 Hours
Supervised fieldwork in appropriate activity courses.

KIN 127E, 227E, 327E, 627E Fieldwork: Applied Learning and Development Majors 1,2,3,6 Hours
Supervised fieldwork or clinical work in appropriate activities.

KIN 627F Topics in Internship 6 Hours
Supervised fieldwork or clinical work in appropriate activities.

KIN 627F.1 Internship in Health Fitness 6 Hours

KIN 627F.2 Internship in Medical Fitness 6 Hours

KIN 127J, 227J, 327J, 627J Internship/Fieldwork: Off Campus 1,2,3,6 Hours
Supervised fieldwork or clinical work in appropriate activities off campus.

KIN 127K, 227K, 327K, 627K Fieldwork: On Campus 1,2,3,6 Hours
Supervised fieldwork or clinical work in appropriate activities on campus.

KIN 127M Exploring Teaching and Physical Activity Leadership 1 Hour
Supervised fieldwork or clinical work in appropriate activities.

KIN 127R, 227R, 327R, 627R Fieldwork: Lab Research 1,2,3,6 Hours
Supervised fieldwork or clinical work in appropriate activities.

KIN 327T Topics in Internship 3 Hours
Designed for health education and kinesiology majors or minors. Supervised fieldwork or clinical work in appropriate activities.

KIN 327T.1 Clinical Exercise Testing 3 Hours

KIN 327T.2 Personal Training 3 Hours

KIN 327T.3 Practicum in Disabilities 3 Hours
Supervised academic service learning or clinical hours in instructor approved environments.

KIN 327T.4 Internship in Strength and Condition Coaching 3 Hours

KIN 628 Internship/Fieldwork in Sport Management 6 Hours

KIN 328C Internship in Sport Management 3 Hours
Supervised fieldwork or clinical work in appropriate activities.

KIN 129S, 229S, 329S, 429S, 529S, 629S, 729S, 829S, 929S Topics in Kinesiology 1-9 Hours

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the study abroad adviser in the Department of Kinesiology. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program.

KIN 330E Sport Nutrition 3 Hours
Explore the nutritional needs of people whose physical activity ranges from recreational to elite athletes. Develop practical dietary strategies based upon understanding how macronutrients, vitamins, minerals, water, and dietary supplements are digested and absorbed and how they effect metabolism.

KIN 331 Physical Aging in America 3 Hours

KIN 332 Techniques of Fitness Leadership 3 Hours
Practical application of theoretical content from exercise physiology, anatomy, and biomechanics. Emphasis on program design and development for healthy adults and special populations.

KIN 334 Children's Exercise and Physical Activity 3 Hours
Focuses on the capacity for physical performance by children and adolescents from both physiological and psychosocial perspectives. Addresses children's readiness for physical training and competitive activities. Considers the active and inactive child with, and without, disabilities and secondary disabling conditions. Entails development of programs designed to keep children appropriately active for a lifetime of positive health outcomes.

KIN 335C Motor Learning 3 Hours
Psychological, behavioral, physiological, and environmental factors involved in performance and learning of motor skills; covers both theoretical and experimental evidence for the effects of these factors, with applications in physical activity, sport, and rehabilitation. Weekly laboratory sessions to collect and analyze data to assess motor performance and learning.

KIN 336 Neuromuscular Control 3 Hours
Study of the brain and motor and sensory pathways involved in the control of movement. Covers nerve, muscle, and sensory cell function along with spinal cord reflexes. Application to research and clinical populations is emphasized.

KIN 338 Motor Development and Assessment 3 Hours
Training in screening, diagnostic, and programmatic motor assessment instruments. Designed to give students practical experience in assessing physical and motoric development in children with and without disabilities.

KIN 340 Modern Olympic Movement in World Affairs 3 Hours
Examination of the place of the modern Olympic movement in world affairs. The cultural, political, and economic dynamics of this relationship will receive special emphasis.

KIN 140C Practicum in Athletic Training: Level 1A 1 Hour
Supervised clinical experiences in the application of concepts, theories, and techniques associated with the prevention, recognition, and immediate care of injuries and illnesses suffered by athletic and physically active populations. Students use cognitive, psychomotor, and affective skills and knowledge to complete a prescribed set of educational competencies and clinical proficiencies under the direction of an approved clinical instructor.

KIN 140D Practicum in Athletic Training: Level 1B 1 Hour
Supervised clinical experiences in the application of concepts, theories, and techniques associated with the prevention, recognition, immediate care, and treatment of injuries and illnesses suffered by athletic and physically active populations. Emphasizes the application of therapeutic modalities and soft-tissue therapy techniques. Students use cognitive psychomotor and affective skills and knowledge to complete a prescribed set of educational competencies and clinical proficiencies under the direction of a clinical preceptor.

KIN 140E Practicum in Athletic Training: Level 2A 1 Hour
Supervised clinical experiences in the application of concepts, theories, and techniques associated with the prevention, recognition, immediate care, treatment, evaluation, and diagnosis of injuries and illnesses suffered by athletic and physically active populations. Emphasizes clinical evaluation and assessment techniques. Students use cognitive, psychomotor, and affective skills and knowledge to complete a prescribed set of educational competencies and clinical proficiencies under the direction of an approved clinical instructor.

KIN 140F Practicum in Athletic Training: Level 2B 1 Hour
Supervised clinical experiences in the application of concepts, theories, and techniques associated with the prevention, recognition, immediate care, treatment, evaluation, diagnosis, rehabilitation, and reconditioning of injuries and illnesses suffered by athletic and physically active populations. Emphasizes therapeutic exercise and rehabilitation procedures. Students use cognitive, psychomotor, and affective skills and knowledge to complete a prescribed set of educational competencies and clinical proficiencies under the direction of a clinical preceptor.

KIN 140G Practicum in Athletic Training: Level 3A 1 Hour
Supervised clinical experiences in the application of concepts, theories, and techniques associated with the prevention, recognition, immediate care, treatment, evaluation, diagnosis, rehabilitation, and reconditioning of injuries and illnesses suffered by athletic and physically active populations. Emphasizes general medical conditions. Students use cognitive psychomotor and affective skills and knowledge to complete a prescribed set of educational competencies and clinical proficiencies under the direction of an approved clinical instructor.

KIN 140J Practicum in Athletic Training: Level 3B 1 Hour
Supervised clinical experiences in the application of concepts, theories, and techniques associated with the prevention, recognition, immediate care, treatment, evaluation, diagnosis, rehabilitation, and reconditioning of injuries and illnesses suffered by athletic and physically active populations. Emphasizes the administrative and professional aspects of managing these conditions. Students use cognitive psychomotor and affective skills and knowledge to complete a prescribed set of education competencies and clinical proficiencies under the direction of a clinical preceptor.

KIN 140M Advanced Manual Therapy 1 Hour
Designed for athletic training majors. Examines the theory and application of manual therapy techniques in patient care. The athletics and physically active populations will be targeted and an aggressive treatment approach for the restoration of function as quickly and as safely as possible will be emphasized.

KIN 140S Senior Seminar in Athletic Training 1 Hour
Designed for athletic training majors. Explores the study and practice of reviewing and applying research findings and evidence based practice concepts to ask and answer clinically relevant questions affecting clinical practice for athletic trainers.

KIN 341 Therapeutic Modalities in Athletic Training 3 Hours
Designed for athletic training majors. The study and practice of using therapeutic modalities, including soft tissue and manual therapy techniques, to treat athletic injuries. Covers physiological effects, indications, contraindications, protocols, injury pathology, and tissue healing.

KIN 342 Clinical Evaluation of Athletic Injuries in the Lower Body 3 Hours
Designed for athletic training majors. The study and practice of techniques involved in the evaluation of athletic injuries affecting the lower body.

KIN 343 Clinical Evaluation of Athletic Injuries in the Upper Body 3 Hours
Designed for athletic training majors. The study and practice of techniques involved in the evaluation of athletic injuries affecting the upper body.

KIN 344 Therapeutic Exercise and Rehabilitation Techniques: Lower Body 3 Hours
Designed for athletic training majors. The study and practice of therapeutic exercise techniques and rehabilitation protocols in treating athletic injuries and illnesses.

KIN 344U Therapeutic Exercise and Rehabilitation: Upper Body 3 Hours
Designed for athletic training majors. Explores the theory and application of therapeutic exercise techniques and rehabilitation protocols. The athletics and physically active populations will be targeted and an aggressive treatment approach for the restoration of function as quickly and as safely as possible will be emphasized. The classroom and laboratory experiences will provide the student with opportunities to apply these techniques under the direct guidance of knowledgeable clinicians specializing in athletic training.

KIN 345 General Medical Conditions in Athletic Training 3 Hours
Designed for athletic training majors. Presentations, including some by medical and allied medical specialists, covering topics in athletic training and sports medicine.

KIN 346 Athletic Training Program Administration 3 Hours
Designed for athletic training majors. The study of organizational and administrative principles involved with athletic training programs. Includes legal issues, budgetary concerns, and policies and procedures. Also includes resume development and career planning.

KIN 347 Historical and Ethical Issues in Physical Culture and Sports 3 Hours
Designed for kinesiology and health education majors. Explores the history of sport industry and sport science and how laboratory revelations lead to new fitness regimens. Covers ethical issues in the field of physical culture and sport, such as the use of ergogenic drugs, the social consequences of high performance sport, and professional ethics in the fields of kinesiology and health education.

KIN 348 Psychological Aspects of Exercise 3 Hours
Designed for applied movement science, health education, and kinesiology majors. Examines both the psychological benefits that accrue from exercise, such as reduced depression and stress, as well as the psychological predictors of exercise adherence.

KIN 349 History of Sport and Physical Activity 3 Hours
Significant developments in sport and physical activity since prehistoric time; emphasis on events influencing contemporary American programs and the International Olympic Games.

KIN 350 Sociological Aspects of Sport and Physical Activity 3 Hours

KIN 351 Philosophy of Sport and Physical Activity 3 Hours
Designed for kinesiology and health education majors. Introduction to the ideas and methodologies of the philosophic exploration of play, sport, athletics, exercise, and the body. Emphasis on the study of sport and ethics.

KIN 352K Topics in Human Movement Studies 3 Hours
Analysis and synthesis of the literature and discussion of current and specific issues in kinesiology.

KIN 352K.18 Physiology of Brain Injury 3 Hours
Examines the physiology of healthy brain and neural function and the pathophysiology associated with brain injury and the subsequent detection, diagnosis, treatment, short and long term consequences, and strategies to protect from and prevent brain injury.

KIN 352K.28 Musculoskeletal Functional Anatomy 3 Hours
Explore a hands-on application of human anatomy as it applies to injury and strength/conditioning.

KIN 352K.29 Research Methods in Exercise Science 3 Hours
Engage in every part of the research process, from defining a specific research question, designing the experimental protocol and performing data collection to presenting results and conclusions in a poster presentation.

KIN 352K.30 Sport Pedagogy 3 Hours

KIN 352K.31 Sport, Society, and the International Olympic Movement 3 Hours

KIN 352K.33 Nutrition: Exercise, Health, and Sport 3 Hours
Explore general nutrition concepts including basic definitions and how nutrition affects health. Examine the current nutrition recommendations at various ages.

KIN 352K.34 Exercise Physiology Cardiovascular Disease 3 Hours
Explore cardiovascular diseases and the effect of exercise in patient populations. Examine current research in the field by reading peer-reviewed, published articles.

KIN 352K.35 Client Services and Venue Management 3 Hours
Examine the Americans with Disability Act and how it designates accessibility and services in public spaces. Identify client/attendee escalation and the dispute resolution practices necessary for successful return to common interest. Explore different models and techniques adopted by entities with respect to fundamentals of marketing.

KIN 352K.36 Exercise Physiology in Cardiovascular Diseases 3 Hours
Examine the physiology of cardiovascular diseases and their consequences on autonomic regulation during exercise in these patient populations. Analyze and synthesize the literature and discussion of current peer-reviewed research articles.

KIN 352K.37 Environmental Physiology 3 Hours
Learn responses and adaptations of the cardiovascular and pulmonary systems to different extreme environments.

KIN 352K.38 Exercise and Sport for Health, Fitness, and Performance 3 Hours
Discuss the impacts that sports and exercise have on health, fitness, and performance.

KIN 352K.6 Race and Sport in African American Life 3 Hours

KIN 352L Women and Sport 3 Hours
Examine the role sport and exercise has played in the lives of women since ancient times with an emphasis on events influencing American women in sport, their fight for access to sport, and the International Olympic Games.

KIN 352M Sport, Fitness, and Mass Media 3 Hours
Examine the evolution of sport media related to competitive sports and physical culture in print, television, and online.

KIN 352N History of Physical Culture 3 Hours
Survey the history of major trends and movements in physical culture, including fitness and exercise, strength sports, body cultures, and alternative health.

KIN 353 Sport Law 3 Hours
Designed for sport management majors. Introduction to the United States legal system and to the major cases, laws, and regulations that together make up "sports law."

KIN 354 Sport and Event Marketing 3 Hours
Application of the fundamental principles used in the marketing of sport and events, with an emphasis on how sport marketing is distinct from traditional goods and services marketing. Focus on key consumption behaviors in sport and their implications for sport marketing practice.

KIN 355 Media and Public Relations in Sport 3 Hours
Designed for sport management majors. Examination and application of the concepts of public and media relations to sport and leisure organizations. Subjects include effective interpersonal communication, persuasion, media relations, publicity tactics, social and new media, and writing and oral communications skills.

KIN 356 Revenue and Budgeting in Sport 3 Hours
Introduction to financial analysis and budgeting techniques in the context of sport organizations; conventional and innovative methods for the acquisition of revenue available to sport organizations. Examine financial trends in various sectors of the sport industry, including: professional, college, government/public, and nonprofit sport.

KIN 357 Strategic Management of Sport Organizations 3 Hours
Designed for sports management majors. Examines the strategic development of sport and health promotion programs. Focus on strategy development within organizations, which includes complementary course material deriving from various sub-disciplines related to strategic thinking and decision-making.

KIN 360 Programming for People with Disabilities 3 Hours
Covers early detection of disabilities in children, assessment, recommendations for educational settings, and writing an Individualized Education Program. Reviews real-life scenarios featuring individuals with disabilities in active settings. Covers skills useful for a career in a school environment, public policy, and recreation.

KIN 361 Coaching Theory and Principles I 3 Hours
Examines the philosophy, ethics, strategies, motivational techniques, performance analysis, program organization, contest administration, and facilities management related to coaching.

KIN 362 Coaching Theory and Principles II 3 Hours
Examines the process of becoming a successful coach and developing a coaching protocol for a specific sport.

KIN 363 Theory and Practice in Strength Coaching 3 Hours
Examine the physiology and biomechanics of strength and conditioning training, as well as popular assessment protocols and exercise prescription principles. Explore the management of a strength/conditioning facility, including organization and administration, staff utilization, integration of weight training with other training techniques, and standard strength coaching practices.

KIN 364 Aquatic Facility Operator: Management and Administration 3 Hours
Designed to prepare the aquatic professional for leadership in the management of indoor and outdoor facilities. Includes aquatic facility operation, administration of programs, physical operations, policies and procedures, and staff development and training. Includes design, pool operation, water chemistry, facility management, safety procedures and risk management, budgeting, and marketing aquatic programs. Studies educational, sport, and recreational aspects of pools, lakes, camps, and beachfronts.

KIN 365 The Business of Golf 3 Hours

Designed for students pursuing a career in the golf business. Includes clubhouse and links management, sales, agronomy, technology, and equipment.

KIN 366R Adapted Fitness and Recreation 3 Hours

Investigate fitness and recreation as integral components of optimal health and well-being for individuals with illnesses and disabling conditions. Explore the benefits of exercise for people with disabilities and the preparation necessary to clear the pathways for individuals to successfully pursue a lifetime of fitness and recreation.

KIN 367S Sport and Disability 3 Hours

Delve into a comprehensive look at the history of disability sport and current elite and Paralympic athletes. Explore disability sport in its historical context; organizations, competitions, and sport opportunities for athletes with disabilities; international perspectives; and coaching and training of athletes with disabilities, including sports medicine issues, activity modifications, equipment uses, and event management for both adult and young athletes.

KIN 368T Perspectives in Assistive Devices, Products and Technology 3 Hours

Participate in a multidisciplinary collaborative approach in the development of devices and products to assist people with disabilities in recreational and daily life pursuits. Join a team of medical and engineering students in prototyping technologies, and be guided through early insight marketing research, and development strategies. Engage with leaders in successful business ventures and learn from experts in technology, medicine and product development. Present concluding projects to a panel of mentors in the fields of research, marketing, development and patenting.

KIN 370K Topics in Health Promotion: Seminar 3 Hours

Identification, causes, incidence, prevention, control, and social implications of major problems in health.

KIN 370K.1 Emergency Medical Technology 3 Hours

KIN 375 Issues and Trends in Developmental Movement Programs 3 Hours

Introduction to issues related to the goals, organization, and success of developmental movement programs, such as school physical education, youth sports, YMCA, and other recreation programs and community activities. Issues include equity, competition, fitness, social development, safety and liability, and sportsmanship. Involves group work and observation and involvement in community programs.

KIN 376 Measurement in Kinesiology 3 Hours

Measurement and assessment procedures; application of statistical procedures; standards for authentic assessment; measurement/assessment selection and evaluation; use of technology in tracking development of motor skills and fitness.

KIN 178, 278, 378, 678 Topics in Fieldwork in Health 1,2,3,6 Hours

Undergraduate research and/or experience with a health agency in the field attempting to analyze or solve community health problems through education; supervision by the health agency and by the kinesiology and health education faculty.

KIN 178.1, 278.1, 378.1, 678.1 Substance Abuse Prevention I 1,2,3,6 Hours

KIN 178.2, 278.2, 378.2, 678.2 Substance Abuse Prevention II 1,2,3,6 Hours

KIN 178.3, 278.3, 378.3, 678.3 Sexual Health I 1,2,3,6 Hours

KIN 178.4, 278.4, 378.4, 678.4 Substance Abuse Prevention III 1,2,3,6 Hours

KIN 379H Honors Tutorial Course 3 Hours

Readings or a research project, under the supervision of a faculty member, in specific areas of research within kinesiology.

KIN 382 Topics in Conference- Laboratory 3 Hours

Laboratory or workshop-type instruction dealing with selected problems in specialization areas of kinesiology.

KIN 382.1 Laboratory Techniques in Exercise Physiology 3 Hours

Study techniques to measure the cardiovascular and metabolic responses to exercise.

KIN 382.10 Pedagogical Technology 3 Hours

Analysis and application of fundamental and advanced technologies in physical activity settings.

KIN 382.4 Biomechanics Laboratory 3 Hours

KIN 382.6 Advanced Laboratory Techniques in Exercise Physiology 3 Hours

Knowledge and skills needed to assess the metabolic characteristics of the rat, to evaluate the metabolic characteristics of skeletal muscle, and to perform essential biochemical assays and procedures that are typically used in biochemical and molecular biology experiments.

KIN 382.7 Clinical Exercise Physiology: Theory and Practice 3 Hours

Designed for students interested in assessing physical fitness and well-being and designing exercise programs in corporate, community, clinical, occupational, and commercial settings. Students receive practical experience assessing physical fitness.

KIN 382.9 Motor Development: Assessment 3 Hours

Review of screening, diagnostic, or programmatic motor assessment instruments. Includes test psychometrics, test content, appropriate population, and comparable or competing assessments.

KIN 386 Topics in Research Methodologies 3 Hours

Disciplines of research methods, research design, data-producing techniques, treatment and interpretation of data, reporting on research.

KIN 386.1 Research Methods: Proposal Writing 3 Hours

KIN 386.2 Research Methods: Applied Research Techniques 3 Hours

KIN 386.3 Qualitative Research Methods PCSS 3 Hours

Introduction to the theoretical and methodological aspects of qualitative research, as well as qualitative research approaches from a variety of disciplines and philosophical traditions with an emphasis on the application of research designs, data collection, and analysis techniques for researchers of sport, physical culture, exercise, and physical activity. Recommended for students specializing in sport management or interdisciplinary sport studies.

KIN 386.4 Research Methods: Grant Writing 3 Hours

Disciplines of research methods, research design, data-producing techniques, treatment and interpretation of data, and reporting on research. Recommended for doctoral students interested in pursuing a post-doctoral experience.

KIN 386.5 Archival Research Methods in Physical Culture and Sport History 3 Hours

Selected research methods and techniques used in archival research at the theoretical and pragmatic level. Familiarizes students with research methods for both paper-based and digital archives.

KIN 395 Topics in Advanced Studies 3 Hours

Graduate seminar in topics related to specialization areas.

KIN 395.1 Ergogenic Aids for Exercise 3 Hours

KIN 395.10 Neural Control of Posture and Locomotion 3 Hours

KIN 395.11 Pulmonary Exercise Physiology 3 Hours

Examine the interactions between the cardiovascular and pulmonary systems at rest and during exercise.

KIN 395.12 Muscle Physiology and Plasticity 3 Hours

KIN 395.13 Aging Motor Systems 3 Hours

KIN 395.15 Conditioning for Competitive Athletes 3 Hours

The physiological factors that govern the adaptations derived from acute and chronic exercise training. Focus will be placed on training adaptation in competitive athletes as they represent the extreme.

KIN 395.16 Cardiovascular Response to Exercise 3 Hours

KIN 395.18 Fitness Testing and Evaluation 3 Hours

KIN 395.2 Cardiac Metabolism 3 Hours

KIN 395.21 Children's Exercise and Activity 3 Hours

Physiological bases for changes in exercise and sports performance and in exercise capacity throughout childhood and adolescence. Includes aspects of cardiovascular, respiratory, and metabolic changes and issues related to thermoregulation, training, gender, and health and fitness.

KIN 395.23 Critical Issues and Events in American Sport 3 Hours

Introduction to historical research process through a reading and analysis of significant works in the field of sport history and the writing of a research paper.

KIN 395.25 Fat Metabolism during Exercise 3 Hours

KIN 395.26 Legal Issues in Sport 3 Hours

KIN 395.27 Athletics Administration 3 Hours

KIN 395.28 Physical Dimensions of Aging 3 Hours

KIN 395.29 Ethics in Sport 3 Hours

KIN 395.3 Physiology of Aging 3 Hours

KIN 395.32 Sport Marketing 3 Hours

Apply the fundamental principles used in the marketing of sport and events.

KIN 395.33 Musculoskeletal Biomechanics 3 Hours

Synthesis of properties of the musculotendon and skeletal systems to construct detailed computer models that quantify human performance and muscular coordination.

KIN 395.36 Biomechanics of Human Movement 3 Hours

KIN 395.38 Muscle Metabolism during Exercise 3 Hours

KIN 395.4 Biomechanics of Sport 3 Hours

KIN 395.42 Facility and Event Management 3 Hours

Management and operation of sport, recreation, convocation, convention, and other public assembly facilities.

KIN 395.43 Psychology of Exercise 3 Hours

The benefits of exercise in moderating negative psychological states such as anxiety, stress reactivity, and depression.

KIN 395.44 Sport Finance 3 Hours

Examine finance in sports organizations. Explore the knowledge and skills needed in the administration of both sport and non-sport organizations or firms.

KIN 395.45 Pediatric Motor Development 3 Hours

KIN 395.46 Advanced Exercise Physiology I 3 Hours

Designed to provide students with the essential graduate background for the application and practice of exercise physiology. The integration of the nervous, skeletal muscle, and cardiovascular systems from the subcellular level to the whole-organism level.

KIN 395.47 Advanced Exercise Physiology II 3 Hours

The physiological and metabolic response to exercise, with emphasis on integrating the whole-body and cellular responses. In a variety of topics, students review basic physiology, focus on responses during exercise, and apply their findings to situations in the clinical and sporting environments.

KIN 395.48 Social Psychology of Sport and Physical Activity 3 Hours

The theoretical structure that underlies social psychology as it has been applied to sport. Emphasis on the psychological concerns that confront coaches in their interactions with individual athletes and teams.

KIN 395.49 Sports Nutrition 3 Hours

The nutritional needs of people whose physical activity ranges from recreational to elite competitive athletics. Development of practical dietary strategies that recognize the unique nature of sport and the role of diet in promoting optimal physiological adaptation to training.

KIN 395.5 Exercise and Preventive Medicine 3 Hours

KIN 395.50 Sport Psychology 3 Hours

The general field of experimental sport psychology, with emphasis on the psychological components of individual performance. Designed to prepare students to discuss the important questions, methodology, and experimental literature in selected areas of sport psychology.

KIN 395.51 Adult Development, Aging, and Health 3 Hours

KIN 395.52 Organizational Behavior in Sport 3 Hours

Determinants and consequences of individual motivation and attitudes in organizations generally and in sport organizations specifically. Theory related to the individual often responsible for motivating people toward organizational goals, the leader.

KIN 395.53 Sport Public Relations and Sales 3 Hours

Detailed study of the relationship between the media, corporate sponsorship, and sport. Focus on various media techniques utilized by sport managers and sport sponsorship basics.

KIN 395.54 The Biology of Aging 3 Hours

KIN 395.55 Assessment of Physical Function in Older Adults 3 Hours

Introduction to the goals, issues, and procedures that relate to the clinical assessment of physical function in the elderly (sixty-five and older).

KIN 395.56 Sport and Special Event Management 3 Hours

Introduction to key considerations when planning, implementing, and evaluating an event. Considers the organization of the events industry worldwide and examines how events link to other sectors of the economy. Specialized skills for the management and marketing of events. Students have the opportunity for hands-on practice in the use of the necessary tools for planning, programming, administering, and evaluating an event.

KIN 395.57 Managing People and Organizations 3 Hours

Graduate-level preparation in select subjects in organizational behavior and human resources management.

KIN 395.58 Sport Consumer Behavior 3 Hours

An examination of contemporary theory and research on the subject of sport consumer behavior.

KIN 395.59 Biomechanics in Clinical Settings 3 Hours

Designed to provide students with the basic biomechanical competence required to understand how normal human movements are generated, how movements are altered by injury or pathology, and how clinical intervention can improve performance.

KIN 395.60 Sport Policy 3 Hours

The formulation and analysis of sport policies: the uses of policy analysis in sport settings; environmental, economic, and sociopolitical impacts of sport, including policy implications.

KIN 395.61 Central Questions in Biomechanics and Motor Control 3 Hours

Designed to allow students to explore specific topics of current interest in biomechanics and/or motor control; to learn to evaluate the scientific literature in areas of current debate or controversy; and to develop scientifically sound, relevant, and experimentally testable research hypotheses.

KIN 395.62 Aging and Cardiovascular Function and Disease Risks 3 Hours

Cardiovascular changes associated with aging; scientific issues and hypotheses in the area of aging and cardiovascular function and disease risks; and presenting critical analyses of these issues.

KIN 395.63 Introduction to Nonlinear Dynamics in Biological Systems 3 Hours

Basic concepts of nonlinear mathematics and their application to biological systems.

KIN 395.64 Neuromuscular Aspects of Fatigue and Training 3 Hours

The role of the central nervous system during muscular fatigue and exercise training.

KIN 395.65 Sport Development 3 Hours

Examine contemporary theory and research on the subject of sport systems and athlete development.

KIN 395.66 Marketing Research for Sport 3 Hours

KIN 395.67 Theories and Issues in Sport Management 3 Hours

Examine legal, policy, financial, and marketing trends and how they affect the management of sport organizations and systems.

KIN 395.68 Human Resource Management in Sport Organizations 3 Hours

KIN 395.69 Physical Activity Assessment in Individuals and Populations 3 Hours

Provides an understanding of the various methods used to measure physical activity and related constructs (such as sedentary behavior, movement, and physiological attributes), and the mechanisms by which physical activity influences health outcomes. Covers all forms of physical activity measurement, assessment of built environment, and psychosocial correlates of physical activity, as well as validity, reliability, and related statistical strategies.

KIN 395.70 Human Cardiovascular and Autonomic Physiology 3 Hours

Introduction to the regulation of the cardiovascular and autonomic nervous system in health and disease.

KIN 395.71 Cognition and Exercise Across the Lifespan 3 Hours

Detailed study of the relationship between brain health and physical activity behaviors across the developmental life stages; focused on the effects of physical activity programming on cognitive control and performance.

KIN 395.72 History of Strength and Strength Training 3 Hours

Explore the history of the physiological understanding of human strength, training methodologies to promote strength, the evolution of the profession of strength coaching, gendered-attitudes toward the possession of physical strength, and the rise of competitive strength sports. Using a cultural studies approach, consider ideas about strength (and muscularity) from Ancient Greece and Rome. Examine the rise of circus strongmen and strongwomen, the professional physical education community's shunning of "strength" as a desirable physiological goal, and the rise of non-professional entrepreneurs like Bob Hoffman, Joe Weider, and Arthur Jones who helped debunk the myth of muscle binding.

KIN 395.73 History of Sport and Business 3 Hours

Survey of the development of modern sport industry from late nineteenth-century roots to twenty-first century global phenomenon. Examines connections between media and sport; the role of IMG and other sport agencies in event sponsorship and creation of celebrity athletes; growth of professionalism in the Olympic movement; the rise of megacorporations; and the commercialization of college and high school athletics.

KIN 395.74 History of Physical Culture and Alternative Medicine 3 Hours

Examines the history of the various practices used to strengthen, enhance, and improve the health of the body through exercise, dietary manipulation, and other holistic practices.

KIN 395.75 Sport and International Relations 3 Hours

Examines the relationship between sport and international relations.

KIN 395.76 History of Exercise Science and Sports Medicine 3 Hours

Traces the evolution of exercise science and sports medicine from Classical Greece to the present.

KIN 395.77 Strategic Management in Sport 3 Hours

Graduate level preparation in developing and analyzing organizational strategies. Preparation for consultancy work as well as composing and analyzing business plans.

KIN 395.78 History of Sports Nutrition 3 Hours

Explore the many ways in which nutritional science, diet, and folk remedies came to be popularized among athletes, and what the ramifications of these developments were. Examine the relationship between exercise and diet in the early nineteenth century, with attention paid to British and American culture. Discuss the emergence of new dietary practices for athletes throughout time, ranging from vegetarian diets to high protein meals. Identify methods and theories found in histories of gender, sport, health, medicine, politics, and culture among other disciplines.

KIN 395.79 Race, History and the Quest for Body Perfection 3 Hours

Explore issues of race, gender, and sexuality as applied to the human body through the lens of cultural history. Examine beliefs about what has been considered "beautiful," "fit," "obese," and "healthy" and bodies have been defined as "masculine," "feminine," or outside this traditional binary. Assess how the human body has been measured and critiqued by physical educators, scientists, and government agencies; how muscularity and the quest for ideal measurements has been celebrated and derided in different historical eras; how beauty and physique contests celebrate particular kinds of bodies; and how ideal bodies have been portrayed in art, photography and film.

KIN 395.8 Motor Control: Neuromuscular Bases 3 Hours

KIN 395.80 Statistical Methods in Education and Health 3 Hours

KIN 395.81 Leadership in Sport Organizations 3 Hours

KIN 395.82 Human Anatomy Dissection 3 Hours

Analyze human anatomy and train in human cadaver dissection. Perform detailed regional dissections on human cadavers to study the anatomy and anatomical relationships of the entire human body with an emphasis on clinically relevant anatomy.

KIN 395.83 Sports Economics 3 Hours

Examine the economics of sports leagues, particularly those in North America. Use a managerial economics approach to cover three core areas of sports economics: industrial organization, labor, and public policy.

KIN 395.84 Endocrine Physiology of Exercise 3 Hours

Examine the hormones involved in exercise physiology and maladaptation(s) in disease states.

KIN 395.85 Environmental Physiology 3 Hours

Learn responses and adaptations of the cardiovascular and pulmonary systems to different extreme environments.

KIN 395.86 Sport Coaching History, Theory, and Ethics 3 Hours

Investigate the historical, theoretical, and ethical considerations of coaching, including strategies, motivational techniques, and program organization for different age and skill levels. Develop a coaching philosophy and apply content to various coaching scenarios.

KIN 395.87 Sport Injury Management 3 Hours

Provide the knowledge, skills, and abilities necessary to prevent, assess, recognize, and manage injuries and conditions that commonly occur during exercise, physical activity, and athletic participation.

KIN 395.88 Strategies and Techniques in Sport Coaching 3 Hours

Examine principles and practices of sport coaching and development of athletes from youth through adolescence and into young adulthood. Discuss the integration of motor learning and development, sports science, practice structure and design, and performance analysis and feedback.

KIN 395.9 Motor Control: Performance and Learning 3 Hours

KIN 395D Neurological Rehabilitation 3 Hours

Explore the scope, techniques, and research findings of the field of neuromuscular and biomechanical mechanisms in neurological rehabilitation. Review basic neuromuscular and biomechanical concepts and principles, and study recent efforts to apply them to selected clinical situations.

KIN 196, 396 Doctoral Seminar 1,3 Hours

Individual or shared project research with reports evaluated by seminar participants and the instructor.

KIN 296T, 396T Directed Research 2-3 Hours

Investigation of assigned problems under direction of a Graduate Studies Committee member; development and demonstration of competence in research design and execution; production of an acceptably written research report.

KIN 197, 397 Research Problems 1,3 Hours

Individual or group research topics in a specialization area of kinesiology.

KIN 197C, 397C Movement and Cognitive Rehabilitation Science Seminar 1,3 Hours

Participate in facilitated research and professional development. Share work with peers and faculty and receive friendly and constructive feedback.

KIN 197P, 397P, 697P Graduate Internship 1,3,6 Hours

Supervised practice in a professional organization, business, or institution.

KIN 698 Thesis 6 Hours

KIN 398R Master's Report 3 Hours

Preparation of a report to fulfill the requirement for the master's degree under the report option.

KIN 399W, 699W, 999W Dissertation 3,6,9 Hours