KINESIOLOGY (KIN)

KIN 100. Leadership, Management, and Ethics in Sports. 3 Credit Hours.
Students will gain an understanding of skills and philosophies of leadership, management, and ethic necessary for a position in the sport industry.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 105. Introduction to Athletic Training and Sports Medicine. 3 Credit Hours.
In this practical, hands-on course, the students will learn to identify basic sport injuries that afflict the major joints of the body, and review basic methods to treat these injuries. The student will also learn how nutrition, improper biomechanics, and poor training can all impact sport performance. Plus, participants will be given the opportunity to learn and practice techniques or procedures (such as athletic taping or bracing) that may be useful in minimizing the incidence of injury.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

KIN 110. Explorations in Sports Medicine. 3 Credit Hours.
This class will consist of an introduction to the field of Sports Medicine and Exercise Science. Basic information relevant to appropriate exercise prescription, proper nutritional habits, implications on health, longevity and performance will be addressed. Hands-on practical experiences will supplement theoretical concepts learned in the classroom setting.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

KIN 137. Introduction To The Theory, Application, And Practice Of Yoga. 2 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

KIN 140. Introduction to Athletic Training. 2 Credit Hours.
The application of athletic training practices in selected clinical education settings. The student must complete 150 hours of documented clinical educational hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize emergency procedures, first aid, and protective equipment. Successful completion of the retention process and formal admittance into the clinical portion of the Athletic Training Program.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 141. Introduction to Athletic Training Lab. 1 Credit Hour.
Introduction to clinical athletic training for the first year athletic training major. Hands on experience for the entry level athletic training student. Students will be required to complete a competencies check list with a passing grade. Clinical hours in the athletic training room will give the student the opportunity to use the knowledge, skills, and techniques learned in this course. The student must complete 70 clinical hours which are required for the application process to the Athletic Training Education Program. Student must be additionally enrolled in ESS 140. Fee $65.00 required for Lab.
Corequisite: KIN 140. Requisite: ATHT, PAT Majors only and a Sophomore Status.
Components: LAB.
Grading: GRD.
Typically Offered: Fall.

KIN 145. Responding to Emergencies. 2 Credit Hours.
Students will become familiar with accident, injury, and illness situations, techniques for immediate first aid, and legal parameters involved when administering emergency care. Certification in adult CPR will be obtained. A $40 lab fee will be required for this class.
Requisite: ATHT Majors only and Sophomore Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 150. General Nutrition for Health and Performance. 3 Credit Hours.
Fundamentals and theories of nutrition with a specific focus on nutrition for both sports and fitness.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 155. Biological Bases for Physical Activity and Health. 3 Credit Hours.
This course serves as an introduction to the field of exercise physiology. Students will learn the biological need for physical activity, discuss specific mechanisms on how physical activity reduces disease risk and understand the relationship between physical activity and chronic diseases such as corony heart disease, obesity, diabetes, cancer, aging and mental health.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 184. Athletic and Sport Injuries. 3 Credit Hours.
Athletic injuries in sports that occur over the principal joints in the body and the inclusion of anatomical structures that are frequently damaged. Operational treatments and rehabilitation program after surgery.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 200. Survey of Sports Administration. 3 Credit Hours.
Students will examine the employment opportunities and skills needed in professional, collegiate, and amateur sports as well as the health and fitness industry.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.
KIN 201. Introduction to Sport Administration. 3 Credit Hours.
Basic overview of the fields of sport management. Majors must receive a grade of B- or higher.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 202. Applied Nutrition for Health and Performance. 3 Credit Hours.
The study of nutrition, diet analysis, biochemical processes in energy metabolism, nutrition and health problems, and nutrition as it relates to physical performance. The class will have 3 sections: 1) nutritional links to chronic disease; 2) nutrition before, during and after exercise bout; and 3) nutritional supplements for health and performance.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 203. Introduction to Gaming and Casino Management. 3 Credit Hours.
The course will focus on the management of gaming and casino operations. Gambling has emerged as a major segment of the sport industry, comprising 10% of sport expenditures and injecting over $20B annually into the economy. Students will be exposed to the managerial requirements and organizational structures of various gaming operations. They will also learn about the history of the gaming industry and its impact on the South Florida and the Caribbean economy. The course will provide an introductory level of knowledge regarding the managerial nuances which make working within the industry unique to the traditional sport business environments.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 206. Sport Facilities and Event Management. 3 Credit Hours.
This course is an overview of the policy and procedures necessary to organize and develop sport events and facilities. In depth review of all programs, functions and procedures necessary for the operation of events and facilities are examined.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 210. Foundations in Athletic Training. 2 Credit Hours.
Introduction to Sports Medicine/Athletic Training with emphasis on study of the sports medicine team, legal concerns, nutrition, and pre-participation physicals. Course will discuss the basic principles of injury prevention including the role of conditioning, equipment, and protective padding. Additionally, students will be introduced to the study of etiology and mechanisms of injury, pathology, and recognition of clinical signs and symptoms of athletic injury. The student must complete 50 clinical observation hours, which are required for the retention process of the Athletic Training Education Program. Prerequisite: Must have sophomore status.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 211. Introduction to Campus Recreation. 3 Credit Hours.
This course is an introductory course and provides a broad overview of campus recreation. It will include information on how to plan, and execute programs such as intramurals, club sports and fitness and wellness. Risk management will be stressed in every aspect in the field along with other important topics such as sponsorships, budgeting, and evaluating programs and employees. Students will gain an understanding of what campus recreation is and its importance to a healthy lifestyle on campus.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 212. Elements of Sports Psychology. 3.00 Credit Hours.
Introduction to the field of sport and exercise psychology by examination of psychological theories and research related to sport and exercise behavior.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 221. Biochemistry And Skeletal Muscle. 3 Credit Hours.
This course will offer an overview of the biochemistry pertaining to neuroendocrine responses, nutrition, and neuromuscular function; as well as the physiological and biochemical plasticity within skeletal muscle associated with various interventions, diseases, injuries, and aging. Majors must receive a grade of B- or higher.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 222. Exercise Physiology Laboratory: Neuromuscular. 2 Credit Hours.
This course examines the nature of data collection in exercise physiology. Students will receive information on collection theory and its application to the measurement of a number of physiological systems during exercise. The course is designed to establish a clear linkage between the chronic and acute changes that occur during exercise and the laboratory methods that are used to assess those changes. Co-requisite: KIN 221.
Components: LAB.
Grading: GRD.
Typically Offered: Fall.

KIN 230. Medical Terminology and Documentation. 1 Credit Hour.
Terminology, note writing, and documentation techniques in sports medicine. A treatment cycle model will be introduced.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 232. Basic Human Physiology. 3 Credit Hours.
This course presents a general overview of the major systems of the human organism with an examination of how they function in the human body. Majors must receive a grade of B- or higher.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.
KIN 233. Basic Anatomy Lab. 2 Credit Hours.
This course presents a general overview of the anatomy of the major body systems, such as the skeletal, muscular, cardiovascular, nervous, digestive, respiratory and reproductive systems as well as the integumentary system and special senses.
Components: LAB.
Grading: GRD.
Typically Offered: Fall.

KIN 234. Functional Human Anatomy. 3 Credit Hours.
The study of human anatomy specifically for the sports medicine practitioner
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 235. Personal and Community Health. 3 Credit Hours.
Overview of current strategies and practices for healthy living, including health maintenance and disease prevention.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 245. Kinesiology. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 250. Orthopedic Assessment: Lower Extremity. 3 Credit Hours.
Common types of orthopedic/sports dysfunctions to the lower extremity will be discussed. Injuries will be discussed from the following viewpoints: etiology and mechanism of injury, pathology, recognition and evaluation techniques, protocols, and prevention. Co-requisite: ESS 261. This course is a designated Upper Level Communication Requirement; Advanced written, digital and/or oral communication proficiencies will be emphasized in this course.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

KIN 251. Orthopedic Assessment: Lower Extremity Lab. 1 Credit Hour.
Techniques used to evaluate orthopedic and sports injuries occurring to the lower extremity. The student must complete 100 clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize lower extremity orthopedic assessment, goniometry, and manual muscle testing techniques. Students must be additionally enrolled in ESS 260.
Components: LAB.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 257. Research Experience in Exercise Physiology. 3 Credit Hours.
This course provides students the opportunity to be immersed in the research process within the discipline of exercise physiology. This includes the entire research process starting with conceptualization of the study and proceeding through research design, implementation (assessment and equipment use), data handling, statistical analysis, and culminating in preparation of manuscripts or presentations.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 260. Orthopedic Assessment: Upper Extremity. 3 Credit Hours.
Common types of orthopedic/sports dysfunctions to the upper extremity will be discussed. Injuries will be discussed from the following viewpoints: etiology and mechanism of injury, pathology, recognition and evaluation techniques, protocols, and prevention. Co-requisite: ESS 261. This course is a designated Upper Level Communication Requirement; Advanced written, digital and/or oral communication proficiencies will be emphasized in this course.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 261. Orthopedic Assessment: Upper Extremity Lab. 1 Credit Hour.
Techniques used to evaluate orthopedic and sports injuries occurring to the upper extremity. The student must complete 100 clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize upper extremity orthopedic assessment, goniometry, and manual muscle testing techniques. Students must be additionally enrolled in ESS 260.
Components: LAB.
Grading: GRD.
Typically Offered: Spring.

KIN 264. General Medical Conditions Evaluation. 1 Credit Hour.
This class is the study of the clinical signs and symptoms of General Medical conditions that will present to the Certified Athletic Trainer. Emphasis will be placed on the techniques and instrumentation used for performing appropriate evaluation procedures.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 297. Practicum in Sport Administration. 1-3 Credit Hours.
A comprehensive program of observation and supervised experience for one semester under the direction of a professional in the sports field. Supervised by Sport Administration program Internship Director. Course only open to Sport Administration Majors & Minors.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 301. Athletic Injuries & Sport First Aid. 3 Credit Hours.
Course will help coaches, camp counselors, teachers, personal trainers, and athletes of all levels to fulfill the role of being a competent first responder to athletic injuries and illnesses. Upon completion of this course, students will have knowledge of basic sport first aid skills, anatomy and sport injury terminology, and knowledge of specific athletic injuries and illnesses. These will include head injuries, sudden illnesses, weather-related problems, upper and lower body musculoskeletal injuries, respiratory emergencies and illnesses, and internal injuries. Students will also learn basic hands-on skills such as splinting, taping, and bracing as it relates to preventing and treating athletic injuries.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
KIN 302. Sport Marketing. 3 Credit Hours.
This course is designed as a marketing course that deals exclusively with Sport Marketing. Students are expected to develop comprehensive marketing and sponsorship plans. This course will require moderate to heavy computer knowledge. This course is designed to maximize the practical applications of marketing theory to the sport business environment.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 306. Essential Leadership in Sports and the Professions. 3 Credit Hours.
A variety of leadership and management skills will be examined, including communication, problem solving, conflict management, group dynamics, and leadership theory. Practical application to sport and allied professions will be included. Self-assessment opportunities and exercises will be utilized. Open to majors only. This course is a designated Upper Level Communication Requirement; Advanced written, digital and/or oral communication proficiencies will be emphasized in this course.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 308. Ethical Decision Making in Sport and the Professions. 3 Credit Hours.
This course will examine ethical dilemmas in decision-making and other contemporary issues in sports management and campus and community environment. Real and hypothetical situations will be utilized.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 310. Adolescent Growth and Maturation. 3 Credit Hours.
This course is an in-depth study of pediatric exercise physiology with special emphasis on growth, maturation, physical activity, and performance. Topics include a comprehensive summary of biological growth and maturation, processes that impact physical performance. Additionally, students will learn the basis of training pediatric populations.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 321. Introduction to Systemic Exercise Physiology. 3 Credit Hours.
The structure, function, and training of the cardiorespiratory system. Special emphasis on structural changes in the systems with exercise and their influence on cardiovascular performance, body composition, exercise efficiency and health.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 322. Exercise Physiology Laboratory: Cardiorespiratory. 2 Credit Hours.
This course concentrates on collection of cardiorespiratory data. In addition, the application of these data to exercise prescription for specific athletic and non-athletic populations will be covered. Corequisite: ESS 321.
Components: LAB.
Grading: GRD.
Typically Offered: Spring.

KIN 330. Medical Terminology. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

KIN 340. Strength and Conditioning. 3 Credit Hours.
Introduction to Sport Specific Strength Training. Students will learn the practice of Olympic Weight Lifting and related exercise techniques.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 344. Gross Anatomy For Kinesiology And Sport Sciences. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 345. Kinesiology. 3 Credit Hours.
Study of the structure and function of the skeletal, joint, and muscular systems. Emphasis is placed on the mechanics of the movement of the human body and its relationship to sport and physical performance.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 365. Principles of Exercise Prescription: Cardiovascular. 3 Credit Hours.
This class is the study of the theory and principles behind the development of exercise programs. Students will learn how to accurately evaluate and develop individual exercise prescription based upon sound scientific research. Exercise prescriptions will be developed in accordance with the guidelines set forth by the National Strength and Conditioning Association and the American College of Sports Medicine. This course is a designated Upper Level Communication Requirement; Advanced written, digital and/or oral communication proficiencies will be emphasized in this course.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
KIN 366. Exercise Physiology Laboratory: Assessment. 3 Credit Hours.
This lab course is designed to complement the ESS 365 lecture course (Principles of Exercise Prescription): Cardiovascular. Students will apply practical field assessments for body composition, aerobic capacity, muscular fitness, and joint range of motion, and will employ exercise strategies to improve each of the assessed fitness components. Students will also prescribe exercises to improve performance-based fitness, such as coordination, balance, agility, speed and power while learning proper exercise training techniques. Must be a declared Exercise Physiology (EXPH) major and receive a grade of "C" or better to satisfy requirements.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 399. Neuromuscular Basis For Training. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 401. Legal Aspects of Sport. 3 Credit Hours.
This course will focus on legal issues applicable to sport administration, including tort law, risk management, negligence, and constitutional law. Relevant legal cases and concepts will be incorporated.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 402. Sport Sponsorship and Promotion. 1-3 Credit Hours.
This course is designed to provide a detailed examination of the relationship between sport and corporate sponsorship. Topics covered will include the theoretical premise of sponsorship, alignment marketing, strategic communication through sponsorship, determining the value of sponsorship, and evaluation of sponsorship activities. Perspectives from the property offering a sponsorship and from the organization functioning as the sponsor will be considered.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

KIN 403. Sport Information Management. 3 Credit Hours.
This course centers upon the development of those skills that are necessary for Sport Information Directors. Specifically, these traditionally include marketing, media, promotion, and public relations. This course hopes to provide detailed knowledge to allow the student to participate in these activities in a professional manner.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 405. Finance and Budget in Sport Administration. 3 Credit Hours.
This course seeks to develop those financial skills necessary to understand a wide variety of financial concepts that impact sport managers. Such topics would include but not be limited to: Sport franchise value/valuations; economic impact of sport; risk-return models; financial statement analysis, and budgeting.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 410. Problems and Issues in Sport Administration. 3 Credit Hours.
This course is designed as a seminar course. Topical issues in high school, collegiate and professional sport are presented and discussed in detail. A number of student-centered activities are introduced to aid in the development of the student.
Requisites: SPAD Majors and Senior Status.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 412. Psychophysiology. 3 Credit Hours.
The study of the physiological effects of acute vs. chronic training on homeostatic function, musculoskeletal systems, energy system function, cardiovascular system, and the pulmonary system. Students will be able to understand and interpret terminology and research literature published in the field.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 415. Evidence Based Sports Medicine. 3 Credit Hours.
This course will introduce the student to clinical epidemiology and the evaluation of the efficacy of prevention, diagnostic, and treatment strategies in athletic training and sport medicine.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 416. Research Methods in Exercise Physiology. 3 Credit Hours.
This course will introduce the student to clinical epidemiology and the evaluation of the efficacy of prevention, diagnostic, and treatment strategies in exercise physiology and related professions.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 421. Advanced Systemic Exercise Physiology. 3 Credit Hours.
This course examines the short and long term physical responses to exercise and provides a general overview of the field of exercise physiology with reference to the latest trends in modern physiological research.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 435. Clinical Biomechanics for Sport Medicine Professionals. 3 Credit Hours.
A lecture course stressing the biomechanics of joints and pathomechanics of orthopedic injuries.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Summer.
KIN 443. Clinical Athletic Training Lab I. 2 Credit Hours.
The application of athletic training practices in selected clinical education settings. The student must complete 150 hours of documented clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize general medical conditions, nutritional issues, psychosocial intervention, and injury prevention and risk management. Prerequisite: A grade of "B" or better in KIN 443 (Formally ESS 443).
Components: LAB.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 444. Clinical Athletic Training Lab II. 2 Credit Hours.
The application of athletic training practices in selected clinical and educational settings. The student must complete 150 hours of documented clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize acute care of injuries and illnesses, lower extremity orthopedic assessment, and risk management and injury prevention. Prerequisite: A grade of "B" or better in KIN 443 and KIN 444 (formerly ESS 443 and ESS 444).
Components: LAB.
Grading: GRD.
Typically Offered: Spring.

KIN 455. Clinical Athletic Training Lab III. 2 Credit Hours.
The application of athletic training practices in selected clinical and educational settings. The student must complete 150 hours of documented clinical education hours, which apply toward graduation requirement of 1000 hours. Clinical education hours will emphasize upper extremity orthopedic assessment, conditioning and rehabilitation, and therapeutic and therapeutic modalities. Prerequisite: A grade of "B" or better in KIN 443, KIN 444, KIN 455 (formerly ESS 443, ESS 444, ESS 455).
Components: LAB.
Grading: GRD.
Typically Offered: Fall.

KIN 456. Clinical Athletic Training Lab IV. 2 Credit Hours.
The application of athletic training practices in selected clinical and educational settings. The student must complete 150 hours of documented clinical education hours, which apply toward the graduation requirement of 1000 hours. Clinical education hours will emphasize upper extremity orthopedic assessment, conditioning and rehabilitation, and therapeutic and therapeutic modalities. Prerequisite: A grade of "B" or better in KIN 443, KIN 444, KIN 455 (formerly ESS 443, ESS 444, ESS 455).
Components: LAB.
Grading: GRD.
Typically Offered: Spring.

KIN 457. Practicum in Kinesiology and Sport Sciences. 1-3 Credit Hours.
A comprehensive program of observation and supervised experience under the direction of a professional in the field for one semester. Supervised by University faculty. This course is a designated Upper Level Communication Requirement; Advanced written, digital and/or oral communication proficiencies will be emphasized in this course.
Components: PRA.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 458. Practicum in Kinesiology and Sport Sciences. 3 Credit Hours.
A comprehensive program of supervised experience conducted under the direction of a professional in the field. Must culminate in research or hands-on experience conducted in the exercise science field.
Components: PRA.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 461. Therapeutic Modalities. 2 Credit Hours.
Students will acquire the theoretical knowledge necessary for the clinical application of therapeutic modalities. Principles of electrophysics and biophysics, specific physiological effects and therapeutic indications and contraindications associated with cryotherapy, paraffin, ultrasound, electrotherapeutic and hydrotherapeutic modalities, intermittent compression, message, and other contemporary modalities will be discussed. Prerequisite: Open only to ATHT majors. Must have completed KIN 140 and 141 and earned a grade of B or better for both courses, Corequisite: KIN 462 (Formally ESS 140 and 141 and ESS 462).
Components: LAB.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 462. Therapeutic Rehabilitation Laboratory. 1 Credit Hour.
"This laboratory will help students apply the techniques and clinical skills related to the application of therapeutic modalities. Clinical education hours will give the student the opportunity to use the knowledge, skills, and techniques learned in this course. Students must complete 50 documented clinical education hours, which apply toward the graduation requirement of 1000 hours. Students must be additionally enrolled in KIN 461 (Formally ESS 461).
Components: LAB.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 463. Therapeutic Rehabilitation. 2 Credit Hours.
"Students will acquire the theoretical knowledge for the clinical application of a rehabilitation program, physical examination, principles of therapeutic exercise, open and closed chain exercise, muscle reeducation, and special therapeutic techniques such as aquatic therapy. Prerequisite: Open only to ATHT majors. Student must be additionally enrolled in KIN 464."
Components: LAB.
Grading: GRD.
Typically Offered: Spring.

KIN 464. Therapeutic Rehabilitation Laboratory. 1 Credit Hour.
This laboratory will place emphasis on the techniques and clinical skills relating to the rehabilitation of athletic injuries. Clinical education hours in a therapeutic rehabilitation facility will give the students the opportunity to use the knowledge, skills, and techniques learned in this course. The student must complete 100 hours of documented clinical education hours, which apply toward the clinical education requirement for graduation. Students must be additionally enrolled in KIN 463 (Formally ESS 463).
Components: LAB.
Grading: GRD.
Typically Offered: Fall.
KIN 465. Pharmacology. 2 Credit Hours.
Introduction to the basic principles of pharmaceutical intervention and the implications for rehabilitation as related to the Certified Athletic Trainer.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 470. Administrative Aspects of Athletic Training. 2 Credit Hours.
Basic concepts of legal liability, budget, financial management, inventory control, facilities design and maintenance will be addressed. Additionally, the student will discuss the day to day supervision, scheduling and general administration of the athletic training room. Open only to ATHT majors. Must have completed KIN 140 and 141 and earned a grade of B or better for both courses (Formally ESS 140 and ESS 141).
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 473. Sports Governance. 3 Credit Hours.
This course provides the students with an examination of the governing organizations of sport at the youth, secondary, intercollegiate, professional, international, sport specific and olympic levels. In addition, policy development in sport management will be explored.
Components: LEC.
Grading: GRD.

KIN 476. Seminar in Athletic training. 2 Credit Hours.
Topics in Athletic Training with discussions covering the NATA competencies and objectives in written and oral practical formats.
Components: SEM.
Grading: GRD.
Typically Offered: Fall.

KIN 477. Advanced Nutrition for Health and Fitness. 3 Credit Hours.
This course is an in-depth study of nutritional concerns of today's athlete. From dehydration to classic carbohydrate loading and from the Female Athlete Triad to ergogenic aids in sports, this course provides state of the art information on the latest nutritional issues for the exercising individual and for the athlete.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 488. Gross Anatomy. 3 Credit Hours.
The essentials of Myology, Osteology, and Arthrology. Major nerves and arteries are also dissected. Many of the dissection areas are injury sites in sports such as the knee, shoulder, elbow, neck, and spinal nerves. There is a laboratory fee requirement for this course ($100.00).
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 490. Special Topics In Kinesiology And Sports Sciences. 1-3 Credit Hours.
This course is designed for students wishing to focus on a specific area of study within the umbrella of the field of Kinesiology. Students will be given supervision and support in a direction relevant to their needs and interests in a structured setting.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 495. Individual Study. 1-3 Credit Hours.
The Application for Admission to Advanced Individual Study Form will be required.
Components: THI.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 496. Individual Study. 1-3 Credit Hours.
The Application for Admission to Advanced Individual Study Form will be required.
Components: THI.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 497. Internship in Sport Administration. 1-9 Credit Hours.
KIN 497: Internship in Sport Administration Filed Experience that requires the student to participate in the work environment (Formally ESS 497).
Requisites: SPAD Majors and Senior Status.
Components: PRA.
Grading: GRD.
Typically Offered: Fall.

KIN 498. Seminar in Sport Administration. 3 Credit Hours.
Professional seminar to accompany internship in sport administration. Students will be required to interact with other internship students and supervisors on a regular basis and additionally, students will be required to submit comprehensive reports regarding their internship experiences. This course is a designated Upper Level Communication Requirement; Advanced written, digital and/or oral communication proficiencies will be emphasized in this course.
Requisites: SPAD Majors and Senior Status.
Components: PRA.
Grading: GRD.
Typically Offered: Spring.

KIN 502. Sport Sponsorship and Promotion. 1-3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

KIN 503. ADVANCED SPORT INFORMATION MANAGEMENT. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

KIN 515. Nutrition Diet and Exercise. 3 Credit Hours.
Students will learn the latest concepts in weight management, physical fitness, and healthy eating. They will be able to understand the complex interplay of carbohydrates, protein, fat, water, fiber, vitamins, and minerals in the nourishment of their body and overall well-being. They will also examine serious health issues such as the use/misuse of anabolic steroids, weight control, and eating disorders.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.
KIN 520. Cellular Exercise Physiology. 3 Credit Hours.
The course examines Bioenergetics and Muscular Physiology in training and detraining. Topics include the energy systems and their functional application during exercise, muscle structure and function, cellular and sub-cellular modifications of organelles and contractile mechanisms as result of training and physiological bases of training techniques.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 521. Advanced Systemic Exercise Physiology. 3 Credit Hours.
The study of the physiological effects of acute vs. chronic training on homeostatic function, musculoskeletal systems, energy system function, cardiovascular and the pulmonary systems. Students will be able to understand and interpret terminology and research literature published in the field.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 522. Basic Statistics in Kinesiology and Sport Sciences. 3 Credit Hours.
Introduction to basic statistical techniques commonly used in the Exercise and Sport Sciences. Designed as a prerequisite for KIN 646 (Formally ESS 646).
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Summer.

KIN 523. Athletic Training Techniques - Assessment. 3 Credit Hours.
This course will introduce the basic concepts related to injury evaluation. With this information, and with the development of basic skills, the student should be able to form an impression of the nature of most musculoskeletal injuries.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 524. Athletic Training Techniques - Rehabilitation. 3 Credit Hours.
This course will introduce theoretical concepts that must be understood in order to be able to rehabilitate a musculoskeletal injury. Regarding actual rehabilitation techniques, the emphasis will be on therapeutic exercise with only a brief introduction to therapeutic modalities.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 525. Advanced Kinesiology. 3 Credit Hours.
In-depth study of the human skeletal and muscular systems with a focus on the mechanics of movement as related to physical activity, sports, and athletics.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 527. Community and Global Nutrition. 3 Credit Hours.
This course is designed to provide an overview of nutritional issues & related aspects of infectious and chronic disease impacting the health and performance of athletes, individuals & groups domestically & globally. Economic and environmental issues which impact nutritional status and deficiency in the Western societies & third world countries will be addressed. An international and cultural perspective on food, eating behaviors and customs will be explored.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 530. Laboratory Techniques in Functional Evaluation of Skeletal Muscle. 3 Credit Hours.
This course examines the theories of data collection and collection techniques used to evaluate musculo-skeletal and neuromuscular function. The application of both computerized and non-computerized collection systems for performance evaluation is covered. The course is also designed to establish a clear linkage between the acute and chronic musculoskeletal and neuromuscular changes that occur during exercise and the laboratory methods used to assess those changes. Collection theory, musculoskeletal and neuromuscular function, methods of strength evaluation, anaerobic power testing, electromyography, and a number of other functional parameters will be discussed.
Components: LAB.
Grading: GRD.
Typically Offered: Spring.

KIN 531. Laboratory Experiences in Systemic Exercise Physiology. 3 Credit Hours.
This course provides a laboratory assessment of physiological principles and theories learned in the classroom setting. Focus will be on systemic application to exercise as an acute or chronic stressor. Corequisite: ESS 521.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 532. Sports Injuries: Prevention and Treatment. 3 Credit Hours.
Prevention, diagnosis, treatment and rehabilitation of sports injuries. Anatomical and Kinesiological application to sports injuries.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 534. Integrative & Functional Nutrition. 3 Credit Hours.
This course will discuss integrative and functional medicine and how it emerged. This course will analyze the healthcare models that include personalized care and the whole-person perspective. In this course we will discuss various factors that influence disease including diet and nutrition, stress, activity level, pharmaceuticals and environmental pollutants. Alternative approaches to treatment will also be discussed.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.
KIN 535. Clinical Biomechanics for Sport Medicine Professionals. 3 Credit Hours.
A lecture course stressing biomechanics of joints and pathomechanics of orthopedic injuries.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Summer.

KIN 536. Strength and Conditioning I. 3 Credit Hours.
This course serves as the practical/technical foundation for major compound movements and Olympic lifts. It also provides comprehension of movement specific dynamic warm-ups, advanced stretching techniques, methods for identifying movement compensations and underlying issues as well as evaluating Olympic techniques. Due to the practical nature of the course, all the sections of this course are held in the Hecht Athletic Center (HAC).
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 537. Strength and Conditioning II. 3 Credit Hours.
This course is the continuation of Strength and Conditioning I (KIN 536). It provides more advanced Olympic weightlifting techniques and ballistic training, alongside a continued focus on corrective exercises to ensure a reduced risk of injury. The course also provides an introduction to exercise programming including specialized training techniques for athletic development. Due to the practical nature of the course, all sections of this course are held in the Hecht Athletic Center (HAC).
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 538. Nutrition during the Lifecycle. 3 Credit Hours.
This course is designed to examine the changes in nutrition requirements during the life cycle, particularly as related to growth, development and aging. Psychosocial, cultural, and economic issues related to food intake at various life stages will be reviewed.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 539. Dietary Supplements And Human Performance. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 540. Exercise Psychobiology. 3 Credit Hours.
This course is designed primarily for graduate level Exercise and Sport science students who are interested in the biochemical basis of personality as affected by exercise and sport. The course involves interdisciplinary integration and comprehensive reviews of ancient and current literature dealing with exercise, stress, emotional, personality, immune system function and neuroendocrine function.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 541. Neurophysiology in Exercise Science. 3 Credit Hours.
Examination of the functions of the central, peripheral, and autonomic nervous systems in regulating exercise homeostasis and the structural and functional modifications to the systems through training. NOTE: This course is a writing intensive course. This means that all examinations and papers include a critical evaluation of the student’s ability to convey information using the written word.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 542. STRENGTH AND CONDITIONING. 3 Credit Hours.
A comprehensive overview of strength and conditioning.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 543. Professional Training and Counseling for Integrative Health. 3 Credit Hours.
Students will learn the integrative health care model, theories, behavior change models, approaches & techniques used in nutritional counseling to help athletes, individuals and groups implement and sustain behaviors, lifestyles, and attitudes to achieve optimal health. Lecture & personal application will allow for the development of skills in each of these areas.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 545. Special Sport Populations. 3 Credit Hours.
This course presents an in-depth examination of chronic conditions and medical problems commonly observed in athletes. Students will learn about the etiology of the medical condition, how exercise affects the condition, and the most recent therapeutic treatments prescribed for the condition.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 546. Elite Conditioning I. 3 Credit Hours.
Elite Conditioning I provides an introduction to evaluation techniques catered specifically to the athletic population including tests for strength, power, speed, agility, balance and stability. The courses also provides instruction on how to apply these evaluations to their respective sports/positions. These evaluation techniques provide data that students will use in the process of corrective exercise prescription. Students are taught how to implement corrective strategies to improve athletic performance. Due to the practical nature of the course, all sections of this course are held in the Hecht Athletic Center (HAC).
Components: LAB.
Grading: GRD.
Typically Offered: Fall & Spring.
KIN 547. Elite Conditioning II. 3 Credit Hours.
Elite Conditioning II is the continuation of Elite Conditioning I (KIN 546). This course provides students with an understanding of the design and implementation of periodized conditioning programs for athletes based on the testing, evaluation, and applications to specific sports learned in Elite Conditioning I. The course focuses on speed agility and quickness for sports. It also includes practical implementation of ballistic, plyometric, speed, and conditioning drills emphasizing evidence based methods and training techniques. Due to the practical nature of the course, all sections of this course are held in Hecht Athletic Center (HAC).
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 549. Nutrition Assessment and Lab. 3 Credit Hours.
Application of the principles of normal and therapeutic nutrition, nutrition assessment, evaluation and intervention as related to sports performance and the management and treatment of disease states. Laboratories will allow for the development of skills in each of these areas.
Components: LAB.
Grading: GRD.
Typically Offered: Fall.

KIN 550. Nutrition Biochemistry. 3 Credit Hours.
To learn the fundamental biochemical structure and pathways governing nutrient intake and utilization. Students will learn how major forms of nutrients (macronutrients, vitamins, minerals and trace elements) are processed and utilized by different organs with a particular emphasis on muscle metabolism. Students will also learn how to relate their newly acquired knowledge to health and disease outcomes with focus on lifestyles disease related to malnutrition such as diabetes and obesity.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 555. Medical Nutrition Therapy. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 556. GLOBALIZATION OF SPORT. 3 Credit Hours.
This course will address the intertwined relationship between globalization, sport, and development from a critical global perspective. This course highlights the extent to which contemporary sport cultures are the result of an interplay between local and global forces. We will explore the international character of professional and amateur sports including international competitions, league expansions beyond national boundaries, and the movement of athletes. Course topics include international sport organization, international competition, sport governance, international dispute resolution, international sports law, and new media.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 557. Diagnostic Imaging Techniques In Sports Medicine. 3 Credit Hours.
This course is designed as an elective for undergraduate KIN students or graduate students. The basic physics of radiological imaging will be covered including radiology, fluoroscopy, CT scan, ultrasound, MRI, and nuclear medicine including image archiving. Normal anatomy will be compared to the corresponding radiographic anatomy. Common sports injuries will be evaluated by multiple radiographic modalities and will be correlated with the clinical condition. Discussion will include bony pathology as well as soft tissues such as ligaments, tendons, and menisci.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 561. Facility Management. 3 Credit Hours.
Facility management provides students with an understanding of fitness entrepreneurship, giving students a comprehensive understanding of the, laws, regulations, polociese, and work involved in setting up a fitness facility such as a gym, wellness center, or athletic training center. Students are responsible for developing a viable sports or fitness complex including all aspects of administrative and facility management.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 562. Fiscal Management in Sport Administration. 3 Credit Hours.
Fiscal management as related to athletic sports administration, recreation and leisure sports administration, and physical education.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 563. Facilities and Event Management. 3 Credit Hours.
This course is designed to introduce students to principles and practices of planning, funding and managing facilities associated with sports participation including professional sport venues, college sports, parks, recreational sport and health/fitness clubs. Students will gain an understanding of promoting, marketing, and maintaining sport facilities.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 564. Principles of Sport Marketing. 3 Credit Hours.
This course will focus on the vast world of sports marketing. The basic principles of marketing and marketing management will be introduced and integrated with application of these principles to sport and sports-related organizations.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 565. Legal Aspects of Sports and Exercise Science. 3 Credit Hours.
Legal liability, personal injury, negligence and other related legal aspects of sports and exercise science.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
KIN 566. Organization and Administration of Sports Programs. 3 Credit Hours.
Administrative and organizational procedures and problems specific to athletic administration, recreation and leisure sports administration, and physical education.
Components: DIL.
Grading: GRD.
Typically Offered: Fall.

KIN 567. Elements of Sports Psychology. 3 Credit Hours.
Introduction to the study of sport and exercise psychology including theory, current research and practical application.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 568. Developmental Sports Psychology. 3 Credit Hours.
Examination of the concept of sport psychology which includes but is not limited to performance, enhancement, student performance and academic application.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

KIN 569. The Foundations of Exercise Prescription. 3 Credit Hours.
Students will learn various assessments of Health and Wellness, and discover how to most effectively prescribe exercise strategies to treat the diagnosed needs of an individual.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 570. Advanced Programming. 3 Credit Hours.
Advance programming allows students to dissect sports by movement, metabolism and limitation. The course investigates current trends and evidenced based applications of specific training techniques for optimal sport performance. Students will perform complete sports analysis and develop periodized programs for major sports.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 571. Sport Industry in South Florida. 3 Credit Hours.
This course will examine the various sport based organizations/events that are part of the sport industry in South Florida. Study of these organizations/events will include (a) products/services produced, (b) organizational structure, (c) economic impact on the local community, (d) key management personnel, (e) physical facilities, and (f) internship/employment opportunities.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 572. Creative Approaches to Problem Solving and Conflict Management. 3 Credit Hours.
This hands-on course will examine the concepts of problem solving and conflict management from both personal and organizational perspectives. Students will have the opportunity to study in-depth both of these concepts (and the relationship between them) through a combination of lecture, theory, individual and group activities, readings, practical exercises, and self-assessment tools.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 574. Ethical Decision Making in Sports and the Professions. 3 Credit Hours.
This course will examine ethical decision-making in a variety of environments with an emphasis on sport professions. Real and hypothetical situations will be utilized, and the course will combine theory with practical application. The case method in sport ethics will be incorporated.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 575. Essential Leadership in Sport and the Professions. 3 Credit Hours.
This course will examine the concept of leadership as it pertains to sports and other professions. Various leadership and management skills will be included with a focus on practical applications in a work environment. Theory and self-assessment strategies will be incorporated.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 576. Practical Approach to Motivation and Ethical Decision Making. 1-3 Credit Hours.
A critical study of practical problems of professionals in Exercise and Sport Sciences.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 577. Advanced Nutrition for Health and Fitness. 3 Credit Hours.
This course presents an in-depth study of the nutritional concerns of today's recreational and competitive athlete. Topics include dehydration, classic carbohydrate loading, protein needs, ergogenic aids, and more. State-of-the-art research in the field is provided. This is also a writing intensive course. Thus, writing skills will represent an integral part of one's grade.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 578. Pharmacology for Allied Health Professionals. 3 Credit Hours.
The study of drug families and drugs in common use across spectra of age, illness, disease, and disability. Students will understand body systems treated with current pharmaceuticals over-the-counter (OTC) medications, and nutraceuticals. Actions, key adverse effects, and influences on individuals undergoing physical activity will be emphasized.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
KIN 579. Principles of Exercise Assessment: Cardiovascular. 3 Credit Hours.
This course presents a comprehensive overview of the physical, physiological and metabolic responses of the human body to exercise testing and training both in health and disease. The successful student will gain an understanding of the process involved in prescribing safe and effective therapeutic exercise in healthy individuals as well as patients with heart and lung disease, diabetes and obesity. An overview of environmental and legal considerations in the prescriptive process will also be discussed.

Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 580. Principles of Exercise Prescription: Neuromuscular. 3 Credit Hours.
An examination of the scientific bases of modern training techniques designed to optimize performance, their functional application and potential impact on performance in sport and everyday activity.

Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 581. Development and Maturation of Athletes.. 3 Credit Hours.
This course is an in-depth study of pediatric exercise physiology with special emphasis on growth, maturation, physical activity, and performance. Topics include a comprehensive summary of biological growth and maturation, processes as it impacts physical performance. Additionally, students will learn the bases of pediatric exercise physiology in order to understand the concepts of motor development, strength, aerobic and anaerobic performance in the pediatric population.

Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 584. Neurological Mechanisms of Metabolism and Weight Regulation. 3 Credit Hours.
The focus of this course is on the integrative neurophysiological functions that regulate and influence obesity, metabolic disease, and inflammation. Students will be able to understand the role that chronic inflammation plays in the pathology of disease. A combination of lecture, critical reading, and group discussion will be utilized to explore the underlying basis for metabolic abnormalities.

Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 585. Advanced Topics in Kinesiology and Sport Sciences. 3 Credit Hours.
This course will provide a synthesis of essential concepts in specialty subjects relevant to one's field of interest.

Components: THI.
Grading: GRD.
Typically Offered: Spring & Summer.

KIN 586. Exercise Prescription/Assessment Laboratory. 3 Credit Hours.
This course presents an overview of the laboratory techniques used to assess cardiovascular endurance and general fitness, pulmonary function and anaerobiases observed during competition.

Components: LAB.
Grading: GRD.
Typically Offered: Fall.

KIN 587. Laboratory Experience in Sports Nutrition. 3 Credit Hours.
This laboratory class provides case study analyses and computerized nutrient analysis systems designed to evaluate nutrition and hydration needs of the recreational and competitive athlete. From urinalysis and blood work to body composition and computerized nutrient data base systems, this laboratory provides a clinical approach to evaluating the nutrition status of the exercising individual. Corequisite: ESS 577.

Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 588. Advanced Gross Anatomy In Kinesiology And Sport Sciences. 3 Credit Hours.
Human dissection of the major muscles, arteries and nerves of the body. Course is held at the University of Miami, Medical Campus, cadaver laboratory. Special consideration is given to injury sites in sports such as the knee, shoulder, elbow, neck and spinal areas. Students are required to pay a $100 laboratory fee for the class. This course is to be taken by undergraduate Athletic Training majors and for the 5-year Sports Medicine with a Concentration in Athletic Training program students only.

Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 589. Directed Readings in Kinesiology and Sport Sciences. 3 Credit Hours.
Directed Readings focusing on research and contemporary trends in the field.

Components: PRA.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 590. Special Topics in Kinesiology and Sport Sciences. 1-3 Credit Hours.
This course is designed for students wishing to focus on a specific area of study within the umbrella of the Kinesiology and Sport Sciences curriculum. Students will be given supervision and support in a direction relevant to their needs and interests in a structured setting.

Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 595. Research Honors Project. 2 Credit Hours.

Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 596. Research Honors Project. 2 Credit Hours.

Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 597. Research Honors Project - Thesis Writing. 2 Credit Hours.

Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 598. Research Honors Project - Seminar. 1 Credit Hour.

Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.
KIN 599. Advanced Programming for Endurance Athletes. 3 Credit Hours.
This course provides students with training techniques to improve aerobic capacity, endurance, and lactate threshold for optimal performance. Students will review evidenced based principles of sports nutrition, strategies to ensure proper hydration, thermoregulation, and fuel (substrate) availability during prolonged exercise as well as develop programs for competitive sports including triathlon, marathon, and cycling.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 601. Organization and Administration of Sports Programs. 3 Credit Hours.
Administrative and organizational procedures and problems specific to athletic administration, recreation and leisure sports administration, and physical education.
Components: DIL.
Grading: GRD.
Typically Offered: Fall.

KIN 602. Fiscal Management in Sport AdministrationFISCAL MGT SPTS AD. 3 Credit Hours.
Fiscal management as related to athletic sports administration, recreation and leisure sports administration, and physical education.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 603. Principles of Sport Marketing. 3 Credit Hours.
This course will focus on the vast world of sports marketing. The basic principles of marketing and marketing management will be introduced and integrated with application of these principles to sport and sports-related organizations.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 604. Essential Leadership in Sport and the Professions. 3 Credit Hours.
This course will examine the concept of leadership as it pertains to sports and other professions. Various leadership and management skills will be included with a focus on practical applications in a work environment. Theory and self-assessment strategies will be incorporated.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 605. Sport Sponsorship and Promotion. 1-3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

KIN 606. Ethical Decision Making in Sports and the Professions. 3 Credit Hours.
This course will examine ethical decision-making in a variety of environments with an emphasis on sport professions. Real and hypothetical situations will be utilized, and the course will combine theory with practical application. The case method in sport ethics will be incorporated.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 607. Legal Aspects of Sports and Exercise Science. 3 Credit Hours.
Legal liability, personal injury, negligence and other related legal aspects of sports and exercise science.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 608. Globalization of Sport. 3 Credit Hours.
Components: LEC.
Grading: GRD.

KIN 609. Advanced Sport Information Management. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

KIN 610. Facilities and Event Management. 3 Credit Hours.
This course is designed to introduce students to principles and practices of planning, funding and managing facilities associated with sports participation including professional sport venues, college sports, parks, recreational sport and health/fitness clubs. Students will gain an understanding of promoting, marketing, and maintaining sport facilities.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 611. Field Experience in Sport Administration I. 1-9 Credit Hours.
Practical experience not ordinarily available through coursework sequences. Placement in a variety of settings, clinics, public and private voluntary agencies and schools. Supervised by a faculty member of the department.
Components: PRA.
Grading: GRD.
Typically Offered: Fall.

KIN 612. Field Experience in Sport Administration II. 1-3 Credit Hours.
Practical experience not ordinarily available through coursework sequences. Placement in a variety of settings, clinics, public and private voluntary agencies and schools. Supervised by a faculty member of the department.
Components: SEM.
Grading: GRD.
Typically Offered: Fall & Summer.

KIN 613. Field Experience in Sport Administration III. 1-3 Credit Hours.
Practical experience not ordinarily available through coursework sequences. Placement in a variety of settings, clinics, public and private voluntary agencies and schools. Supervised by a faculty member of the department.
Components: PRA.
Grading: GRD.
Typically Offered: Summer.
KIN 616. Advanced Sport Governance. 3 Credit Hours.
This course provides the student with an examination of the governing organizations of sport at the youth, secondary, intercollegiate, professional, international, sport specific and Olympic levels. In addition, policy development in sport management will be explored.
Components: LEC.
Grading: GRD.
Typically Offered: Spring & Summer.

KIN 617. Creative Approaches to Problem Solving and Conflict Management. 3 Credit Hours.
This hands-on course will examine the concepts of problem solving and conflict management from both personal and organizational perspectives. Students will have the opportunity to study in-depth both of these concepts (and the relationship between them) through a combination of lecture, theory, individual and group activities, readings, practical exercises, and self-assessment tools.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 620. Contemporary Issues in Kinesiology and Sport Sciences. 1-3 Credit Hours.
Problem identification, investigation, analysis, and problem solving approaches in Kinesiology and Sport Sciences.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 621. Advanced Systemic Exercise Physiology. 3 Credit Hours.
The study of the physiological effects of acute vs. chronic training on homeostatic function, musculoskeletal systems, energy system function, cardiovascular and the pulmonary systems. Students will be able to understand and interpret terminology and research literature published in the field.
Components: DIS.
Grading: GRD.
Typically Offered: Fall.

KIN 623. Food Science and Management Principles. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 624. Athletic Training Techniques - Rehabilitation. 3 Credit Hours.
This course will introduce theoretical concepts that must be understood in order to be able to rehabilitate a musculoskeletal injury. Regarding actual rehabilitation techniques, the emphasis will be on therapeutic exercise with only a brief introduction to therapeutic modalities.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 625. Advanced Kinesiology. 3 Credit Hours.
In-depth study of the human skeletal and muscular systems with a focus on the mechanics of movement as related to physical activity, sports, and athletics.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 626. Nutrition Diet and Exercise. 3 Credit Hours.
Students will learn the latest concepts in weight management, physical fitness, and healthy eating. They will be able to understand the complex interplay of carbohydrates, protein, fat, water, fiber, vitamins, and minerals in the nourishment of their body and overall well-being. They will also examine serious health issues such as the use/misuse of anabolic steroids, weight control, and eating disorders.
Components: LEC.
Grading: GRD.
Typically Offered: Summer.

KIN 627. Community and Global Nutrition. 3 Credit Hours.
This course is designed to provide an overview of nutritional issues & related aspects of infectious and chronic disease impacting the health and performance of athletes, individuals & groups domestically & globally. Economic and environmental issues which impact nutritional status and deficiency in the Western societies & third world countries will be addressed. An international and cultural perspective on food, eating behaviors and customs will be explored.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 628. Basic Statistics in Kinesiology and Sport Sciences. 3 Credit Hours.
Introduction to basic statistical techniques commonly used in the Exercise and Sport Sciences. Designed as a prerequisite for KIN 646 (Formally ESS 646).
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Summer.

KIN 630. Cellular Exercise Physiology. 3 Credit Hours.
The course examines Bioenergetics and Muscular Physiology in training and detraining. Topics include the energy systems and their functional application during exercise, muscle structure and function, cellular and sub-cellular modifications of organelles and contractile mechanisms as result of training and physiological bases of training techniques.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 631. Laboratory Techniques in Functional Evaluation of Skeletal Muscle. 3 Credit Hours.
This course examines the theories of data collection and collection techniques used to evaluate musculo-skeletal and neuromuscular function. The application of both computerized and non-computerized collection systems for performance evaluation is covered. The course is also designed to establish a clear linkage between the acute and chronic musculo-skeletal and neuromuscular changes that occur during exercise and the laboratory methods used to assess those changes. Collection theory, musculoskeletal and neuromuscular function, methods of strength evaluation, anaerobic power testing, electromyography, and a number of other functional parameters will be discussed.
Components: LAB.
Grading: GRD.
Typically Offered: Spring.
KIN 632. Sports Injuries: Prevention and Treatment. 3 Credit Hours.
Prevention, diagnosis, treatment and rehabilitation of sports injuries.
Anatomical and Kinesiological application to sports injuries.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 634. Integrative & Functional Nutrition. 3 Credit Hours.
This course will discuss integrative and functional medicine and how it emerged. This course will analyze the healthcare models that include personalized care and the whole-person perspective. In this course we will discuss various factors that influence disease including diet and nutrition, stress, activity level, pharmaceuticals and environmental pollutants. Alternative approaches to treatment will also be discussed.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 635. Clinical Biomechanics for Sport Medicine Professionals. 3 Credit Hours.
A lecture course stressing biomechanics of joints and pathomechanics of orthopedic injuries.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Summer.

KIN 636. Strength and Conditioning I. 3 Credit Hours.
This course serves as the practical/technical foundation for major compound movements and Olympic lifts. It also provides comprehension of movement specific dynamic warm-ups, advanced stretching techniques, methods for identifying movement compensations and underlying issues as well as evaluating Olympic techniques. Due to the practical nature of the course, all the sections of this course are held in the Hecht Athletic Center (HAC).
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 637. Strength and Conditioning II. 3 Credit Hours.
This course is the continuation of Strength and Conditioning I (KIN 536). It provides more advanced Olympic weightlifting techniques and ballistic training, alongside a continued focus on corrective exercises to ensure a reduced risk of injury. The course also provides an introduction to exercise programming including specialized training techniques for athletic development. Due to the practical nature of the course, all sections of this course are held in the Hecht Athletic Center (HAC).
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 638. Nutrition during the Lifecycle. 3 Credit Hours.
This course is designed to examine the changes in nutrition requirements during the life cycle, particularly as related to growth, development and aging. Psychosocial, cultural, and economic issues related to food intake at various life stages will be reviewed.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 639. Dietary Supplements And Human Performance. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 640. Exercise Psychobiology. 3 Credit Hours.
This course is designed primarily for graduate level Exercise and Sport science students who are interested in the biochemical basis of personality as affected by exercise and sport. The course involves interdisciplinary integration and comprehensive reviews of ancient and current literature dealing with exercise, stress, emotional, personality, immune system function and neuroendocrine function.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 641. Neurophysiology in Exercise Science. 3 Credit Hours.
Examination of the functions of the central, peripheral, and autonomic nervous systems in regulating exercise homeostasis and the structural and functional modifications to the systems through training. NOTE: This course is a writing intensive course. This means that all examinations and papers include a critical evaluation of the student’s ability to convey information using the written word.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 642. STRENGTH AND CONDITIONING. 3 Credit Hours.
A comprehensive overview of strength and conditioning.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 643. Professional Training and Counseling for Integrative Health. 3 Credit Hours.
Students will learn the integrative health care model, theories, behavior change models, approaches & techniques used in nutritional counseling to help athletes, individuals and groups implement and sustain behaviors, lifestyles, and attitudes to achieve optimal health. Lecture & personal application will allow for the development of skills in each of these areas.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 644. Special Sport Populations. 3 Credit Hours.
This course presents an in-depth examination of chronic conditions and medical problems commonly observed in athletes. Students will learn about the etiology of the medical condition, how exercise affects the condition, and the most recent therapeutic treatments prescribed for the condition.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
KIN 646. Elite Conditioning I. 3 Credit Hours.
Elite Conditioning I provides an introduction to evaluation techniques catered specifically to the athletic population including tests for strength, power, speed, agility, balance and stability. The courses also provides instruction on how to apply these evaluations to their respective sports/positions. These evaluation techniques provide data that students will use in the process of corrective exercise prescription. Students are taught how to implement corrective strategies to improve athletic performance. Due to the practical nature of the course, all sections of this course are held in the Hecht Athletic Center(HAC).

Components: LAB.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 647. Elite Conditioning II. 3 Credit Hours.
Elite Conditioning II is the continuation of Elite Conditioning I (KIN 546). This course provides students with an understanding of the design and implementation of periodized conditioning programs for athletes based on the testing, evaluation, and applications to specific sports learned in Elite Conditioning I. The course focuses on speed agility and quickness for sports. It also includes practical implementation of ballistic, plyometric, speed, and conditioning drills emphasizing evidence based methods and training techniques. Due to the practical nature of the course, all sections of this course are held in Hecht Athletic Center(HAC).

Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 649. Nutrition Assessment and Lab. 3 Credit Hours.
Application of the principles of normal and therapeutic nutrition, nutrition assessment, evaluation and intervention as related to sports performance and the management and treatment of disease states. Laboratories will allow for the development of skills in each of these areas.

Components: LAB.
Grading: GRD.
Typically Offered: Fall.

KIN 650. Nutrition Biochemistry. 3 Credit Hours.
To learn the fundamental biochemical structure and pathways governing nutrient intake and utilization. Students will learn how major forms of nutrients (macronutrients, vitamins, minerals and trace elements) are processed and utilized by different organs with a particular emphasis on muscle metabolism. Students will also learn how to relate their newly acquired knowledge to health and disease outcomes with focus on lifestyles disease related to metabolism such as diabetes and obesity.

Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 655. Medical Nutrition Therapy. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 657. Diagnostic Imaging Techniques In Sports Medicine. 3 Credit Hours.
This course is designed as an elective for undergraduate KIN students or graduate students. The basic physics of radiological imaging will be covered including radiology, fluoroscopy, CT scan, ultrasound, MRI, and nuclear medicine including image archiving. Normal anatomy will be compared to the corresponding radiographic anatomy. Common sports injuries will be evaluated by multiple radiographic modalities and will be correlated with the clinical condition. Discussion will include bony pathology as well as soft tissues such as ligaments, tendons, and menisci.

Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 661. Facility Management. 3 Credit Hours.
Facility management provides students with an understanding of fitness entrepreneurship, giving students a comprehensive understanding of the, laws, regulations, polociese, and work involved in setting up a fitness facility such as a gym, wellness center, or athletic training center. Students are responsible for developing a viable sports or fitness complex including all aspects of administrative and facility management.

Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 662. Fitness Facility Management II. 3 Credit Hours.
Fiscal management as related to athletic sports administration, recreation and leisure sports administration, and physical education.
Corequisite: KIN 661.

Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 667. Elements of Sports Psychology. 3 Credit Hours.
Introduction to the study of sport and exercise psychology including theory, current research and practical application.

Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 668. Developmental Sports Psychology. 3 Credit Hours.
Examination of the concept of sport psychology which includes but is not limited to performance, enhancement, student performance and academic application.

Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

KIN 669. The Foundations of Exercise Prescription. 3 Credit Hours.
Students will learn various assessments of Health and Wellness, and discover how to most effectively prescribe exercise strategies to treat the diagnosed needs of an individual.

Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.
KIN 670. Advanced Programming. 3 Credit Hours.
Advance programming allows students to dissect sports by movement, metabolism and limitation. The course investigates current trends and evidenced based applications of specific training techniques for optimal sport performance. Students will perform complete sports analysis and develop periodized programs for major sports.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 671. Sport Industry in South Florida. 3 Credit Hours.
This course will examine the various sport based organizations/events that are part of the sport industry in South Florida. Study of these organizations/events will include (a) products/services produced, (b) organizational structure, (c) economic impact on the local community, (d) key management personnel, (e) physical facilities, and (f) internship/employment opportunities.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 673. Advanced Sport Governance. 3 Credit Hours.
This course provides the student with an examination of the governing organizations of sport at the youth, secondary, intercollegiate, professional, international, sport specific and Olympic levels. In addition, policy development in sport management will be explored.
Components: LEC.
Grading: GRD.
Typically Offered: Spring & Summer.

KIN 677. Advanced Nutrition for Health and Fitness. 3 Credit Hours.
This course presents an in-depth study of the nutritional concerns of today’s Recreational and competitive athlete. Topics include dehydration, classic carbohydrate loading, protein needs, ergogenic aids, and more. State-of-the-art research in the field is provided. This is also a writing intensive course. Thus, writing skills will represent an integral part of one’s grade.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 678. Pharmacology for Allied Health Professionals. 3 Credit Hours.
The study of drug families and drugs in common use across spectra of age, illness, disease, and disability. Students will understand body systems treated with current pharmaceuticals over-the-counter (OTC) medications, and nutraceuticals. Actions, key adverse effects, and influences on individuals undergoing physical activity will be emphasized.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 679. Principles of Exercise Assessment: Cardiovascular. 3 Credit Hours.
This course presents a comprehensive overview of the physical, physiological and metabolic responses of the human body to exercise testing and training both in health and disease. The successful student will gain an understanding of the process involved in prescribing safe and effective therapeutic exercise in healthy individuals as well as patients with heart and lung disease, diabetes and obesity. An overview of environmental and legal considerations in the prescriptive process will also be discussed.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 680. Principles of Exercise Prescription: Neuromuscular. 3 Credit Hours.
An examination of the scientific bases of modern training techniques designed to optimize performance, their functional application and potential impact on performance in sport and everyday activity.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 681. Development and Maturation of Athletes. 3 Credit Hours.
This course is an in-depth study of pediatric exercise physiology with special emphasis on growth, maturation, physical activity, and performance. Topics include a comprehensive summary of biological growth and maturation, processes as it impacts physical performance. Additionally, students will learn the bases of pediatric exercise physiology in order to understand the concepts of motor development, strength, aerobic and anaerobic performance in the pediatric population.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 684. Obesity, Metabolic Disease, and Inflammation. 3 Credit Hours.
The focus of this course is on the integrative neurophysiological functions that regulate and influence obesity, metabolic disease, and inflammation. Students will be able to understand the role that chronic inflammation plays in the pathology of disease. A combination of lecture, critical reading, and group discussion will be utilized to explore the underlying basis for metabolic abnormalities.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 685. Advanced Topics in Kinesiology and Sport Sciences. 3 Credit Hours.
This course will provide a synthesis of essential concepts in specialty subjects relevant to one’s field of interest.
Components: THI.
Grading: GRD.
Typically Offered: Spring & Summer.

KIN 686. Exercise Prescription/Assessment Laboratory. 3 Credit Hours.
This course presents an overview of the laboratory techniques used to assess cardiovascular endurance and general fitness, pulmonary function and anaerobias observed during competition.
Components: LAB.
Grading: GRD.
Typically Offered: Fall.
KIN 687. Laboratory Experience in Sports Nutrition. 3 Credit Hours.
This laboratory class provides case study analyses and computerized nutrient analysis systems designed to evaluate nutrition and hydration needs of the recreational and competitive athlete. From urinalysis and blood work to body composition and computerized nutrient database systems, this laboratory provides a clinical approach to evaluating the nutrition status of the exercising individual. Corequisite: ESS 577.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 688. Advanced Gross Anatomy in Kinesiology and Sport Sciences. 3 Credit Hours.
Human dissection of the major muscles, arteries and nerves of the body. Course is held at the University of Miami, Medical Campus, cadaver laboratory. Special consideration is given to injury sites in sports such as the knee, shoulder, elbow, neck and spinal areas. Students are required to pay a $100 laboratory fee for the class. This course is to be taken by undergraduate Athletic Training majors and for the 5-year Sports Medicine with a Concentration in Athletic Training program students only.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 689. Directed Readings in Kinesiology and Sport Sciences. 3 Credit Hours.
Directed Readings focusing on research and contemporary trends in the field.
Components: PRA.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 690. Strength and Conditioning Independent Study/Project. 3 Credit Hours.
Practical experience not ordinarily available through coursework sequences. Placement in a variety of settings, clinics, public and private voluntary agencies and schools. Supervised by a faculty member of the department.
Components: THI.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 698. Professional Training & Counseling for Integrative Health. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 699. Advanced Programming for Endurance Athletes. 3 Credit Hours.
This course provides students with training techniques to improve aerobic capacity, endurance, and lactate threshold for optimal performance. Students will review evidenced based principles of sports nutrition, strategies to ensure proper hydration, thermoregulation, and fuel (substrate) availability during prolonged exercise as well as develop programs for competitive sports including triathlon, marathon, and cycling.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 702. Athletics in the United States. 3 Credit Hours.
An Assessment of athletics in the United States. Focus on historical perspectives, contemporary issues, interface with international athletics, and future trends.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 704. Recreation in the United States. 3 Credit Hours.
An assessment of recreation and leisure in the United States. Focus on past, present, and future trends, problems, and issues.
Components: LEC.
Grading: GRD.
Typically Offered: Offered by Announcement Only.

KIN 710. Advanced Adolescent Growth and Maturation. 3 Credit Hours.
This course is an in-depth study of pediatric exercise physiology with special emphasis on growth, maturation, physical activity, and performance. Topics include a comprehensive summary of biological growth and maturation, processes that impact physical performance. Additionally, students will learn the basis of training pediatric populations.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 712. Applied Sport Psychophysiology. 3 Credit Hours.
The study of the physiological effects of acute vs. chronic training on homeostatic function, musculoskeletal systems, energy system function, cardiovascular system, and the pulmonary system. Students will be able to understand and interpret terminology and research literature published in the field.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 715. Evidence-Based Sports Medicine. 3 Credit Hours.
Introduction to clinical epidemiology and the evaluation of the efficacy of prevention, diagnostic, and treatment strategies or orthopedic injuries in sports medicine.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 716. Advanced Rehabilitation Techniques in Sports Medicine. 3 Credit Hours.
This is an advanced athletic training course designed to enhance the athletic trainer’s ability to plan and implement a comprehensive sports injury rehabilitation program based on the sequential events of musculoskeletal tissue healing. Discussion focuses on the development of a conceptual model for sports injury rehabilitation which incorporates rehabilitation phases, intervention goals, and progression criteria. Application of the problem-oriented approach to the management of athletic injuries is a predominant theme throughout this course.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
KIN 717. Advanced Evaluation Techniques in Sports Medicine. 3 Credit Hours.
A lecture/lab course stressing clinical techniques involved in the use of posture evaluation, back evaluation, advanced orthopedic evaluation, and gait analysis, in conjunction with the scientific foundations of physiology and biomechanical principles associated with advanced evaluation techniques.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 720. Practicum in Athletic Training. 3 Credit Hours.
Field experience at the athletic training setting through working with collegiate athletes to expose students to the role and function of athletic training as a certified athletic trainer and as an clinical instructor.
Components: PRA.
Grading: GRD.
Typically Offered: Fall.

KIN 721. Independent Study I. 1 Credit Hour.
This course is an advanced study of a particular theme or topic in the athletic training field such as students' research topic, current issues of relevance to certified athletic trainers and other professionals in the sports health care profession. Students will prepare for class discussion by reviewing assigned readings from professional journals and other pertinent sources. Class sessions will consist of lectures, laboratories, and discussion sessions.
Components: THI.
Grading: GRD.
Typically Offered: Fall.

KIN 722. Practicum in Athletic Training 2. 3 Credit Hours.
Field experience at that athletic training setting through working with collegiate athletes to expose students to the role and function of athletic training as certified athletic trainer and a clinical instructor as well.
Components: PRA.
Grading: GRD.
Typically Offered: Spring.

KIN 723. Independent Study 2. 1 Credit Hour.
This course is an advanced study of a particular theme or topic in the athletic training field such as students’ research topic, current issues of relevance to certified athletic trainers and other professionals in the sports health care professions. Students will prepare for class discussion by reviewing assigned readings from professional journals and other pertinent sources. Class sessions will consist of lectures, laboratories, and discussion sessions.
Components: LAB.
Grading: GRD.
Typically Offered: Spring.

KIN 724. Practicum in Athletic Training III. 3 Credit Hours.
Field experience at the athletic training setting through working with collegiate athletes to expose students to the role and function of athletic training as a certified athletic trainer and clinical instructor as well.
Components: PRA.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 725. Independent Study III. 1 Credit Hour.
This course is an advanced study of a particular theme or topic in the athletic training field such as students' research topic, current issues of relevance to certified athletic trainers and other professionals in the sports health care professions. Students will prepare for class discussion by reviewing assigned readings from professional journals and other pertinent sources. Class sessions will consist of lectures, laboratories, and discussion sessions.
Components: THI.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 726. Practicum in Athletic Training IV. 3 Credit Hours.
Field experience at the athletic training setting through working with collegiate athletes to expose students to the role and function of athletic training as a certified athletic trainer and clinical instructor as well.
Components: PRA.
Grading: GRD.
Typically Offered: Spring.

KIN 727. Pract in Nutrition. 3 Credit Hours.
Components: THI.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 735. Methods in Biomechanical Analysis. 3 Credit Hours.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 740. Neurophysiology in Exercise Science. 3 Credit Hours.
The physiological changes that occur due to aging and their impact on fall prevention, independence and the application of prophylactic exercise prescriptions .
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 741. Aging: Physiological Changes and Their Implications of Training. 3 Credit Hours.
The physiological changes that occur due to aging and their impact on fall prevention, independence and the application of prophylactic exercise prescriptions .
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 742. Fundamentals of Cardiology. 3 Credit Hours.
This course represents an in-depth review and evaluation of the field of cardiology. Students must understand the etiology of coronary artery diseases, assessment techniques in the evaluation of cardiac pathologies, the latest risk factors, and most recent trends in treatment and rehabilitation. Phase I through Phase IV review of Cardiac Rehabilitation will be fully examined.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.
KIN 743. Laboratory Experiences in Cardiac Rehabilitation. 3 Credit Hours.
This class provides hands-on clinical experiences in preparation of patient for testing, assessment of pre-existing medical conditions and risk factors as well as appropriate procedures for stress testing. Student will, in addition, have the opportunity to view Thallium stress tests, echocardiography and cardiac surgical procedures such as angioplasty and bypass surgery.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 744. Interpretation Of The Ecg. 3 Credit Hours.
This class will provide information of the electrophysiology of the heart, medicines used to improve heart function, and critical examination of waveform analyses in interpreting the electrocardiogram. Prerequisite: KIN 642 (Formally ES S 642) or permission of the instructor.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 746. Research Methods in Kinesiology and Sport Sciences. 3 Credit Hours.
This Course reviews the approach and research methods used to evaluate quantitative research questions in the field of Kinesiology and Sport Sciences.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 747. Analytic Methods in Kinesiology and Sport Sciences. 3 Credit Hours.
Methods of analyzing research data in Kinesiology and Sport Sciences.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 755. Exercise Biochemistry. 3 Credit Hours.
This course presents an in-depth examination of the biochemical basis of exercise. Topics include carbohydrate and lipid metabolism at rest and during exercise, integration of metabolism, the use of stable isotopes in the characterization of substrate kinetics, and metabolic bases of fatigue. Both the instructor and the students will incorporate current peer-reviewed research in the field.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 782. Psychosocial Issues in Women's Health. 3 Credit Hours.
This course covers a broad perspective of women and their self-esteem, their femininity, and their role in family household. Attention will be paid to the historical, cultural, and anthropological development of women and their role in society. The influence of gender will explore several areas which include a) pregnancy, b) menopause, c) menstrual cycle, d) stress and career vs. family, e) depression, and f) body image.
Components: LEC.
Grading: GRD.
Typically Offered: Spring.

KIN 783. Sports Medicine for the Female Athlete. 3 Credit Hours.
This course focuses upon the physiological effects of exercise on the female athlete as it relates to her performance and health. Physiological differences between male and female will be examined as it impacts the women's performance a pabilities and potential. Gender specific problems regarding the exercising female will be explored.
Components: LEC.
Grading: GRD.
Typically Offered: Fall.

KIN 784. Advance Neurological Mechanisms of Metabolism and Weight Regulation. 3 Credit Hours.
This course is designed to evaluate dieting, rebound effect, set point theory, brown fat, and adaptive thermogenesis, as they relate to the etiology of obesity. The course will cover a step-by-step approach in the recognition, and management of the overweight patient. The course will also examine adipocyte morphology and the health implications of being overweight and obese. Students will examine the impact of both diet and exercise on long-term weight management.
Components: LEC.
Grading: GRD.
Typically Offered: Fall & Spring.

KIN 785. Exercise Physiology. 3 Credit Hours.
The course presents graduate students with the theoretical and practical tools necessary for expanding their critical thinking and argumentative skills in order to present their scientific research results in an evaluative, logical and analytical manner. The course consists of weekly presentations of related literature, results, and findings on various Master’s projects.
Components: PRA.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 786. Psychosis and Fitness Entrepreneurship. 1 Credit Hour.
The course covers the theoretical and practical tools necessary for presenting their scientific research in an organized, logical, and analytical manner. The course is designed to evaluate dieting, rebound effect, set point theory, brown fat, and adaptive thermogenesis, as they relate to the etiology of obesity. The course will cover a step-by-step approach in the recognition, and management of the overweight patient. The course will also examine adipocyte morphology and the health implications of being overweight and obese. Students will examine the impact of both diet and exercise on long-term weight management.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 787. Research Colloquium. 1-3 Credit Hours.
The course presents graduate students with the theoretical and practical tools necessary for presenting their scientific research in an organized, logical, and analytical manner. The course is designed to evaluate dieting, rebound effect, set point theory, brown fat, and adaptive thermogenesis, as they relate to the etiology of obesity. The course will cover a step-by-step approach in the recognition, and management of the overweight patient. The course will also examine adipocyte morphology and the health implications of being overweight and obese. Students will examine the impact of both diet and exercise on long-term weight management.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.

KIN 788. Sports Performance Nutrition. 3 Credit Hours.
The course presents graduate students with the theoretical and practical tools necessary for presenting their scientific research in an organized, logical, and analytical manner. The course is designed to evaluate dieting, rebound effect, set point theory, brown fat, and adaptive thermogenesis, as they relate to the etiology of obesity. The course will cover a step-by-step approach in the recognition, and management of the overweight patient. The course will also examine adipocyte morphology and the health implications of being overweight and obese. Students will examine the impact of both diet and exercise on long-term weight management.
Components: LEC.
Grading: GRD.
Typically Offered: Fall, Spring, & Summer.
KIN 794. Advanced Individual Study. 1-3 Credit Hours.
The Application for Admission to Individual Study Form will be required.
**Components:** THI.
**Grading:** GRD.
**Typically Offered:** Fall, Spring, & Summer.

KIN 795. Graduate/Clinical Field Experience in Kinesiology and Sport Sciences. 3 Credit Hours.
Practical experience not ordinarily available through coursework sequences. Placement in a variety of settings, clinics, public and private voluntary agencies and schools. Supervised by a faculty member of the department.
**Components:** PRA.
**Grading:** GRD.
**Typically Offered:** Fall, Spring, & Summer.

KIN 799. Special Project. 1-3 Credit Hours.
This course represents the capstone course in a students field and should represent a culmination of all information learned in class.
**Components:** THI.
**Grading:** GRD.
**Typically Offered:** Fall, Spring, & Summer.

KIN 810. Master's Thesis. 1-6 Credit Hours.
The student working on his/her master's thesis enrolls for credit, in most departments not to exceed six, as determined by his/her advisor. Credit is not awarded until the thesis has been accepted.
**Components:** PRA.
**Grading:** GRD.
**Typically Offered:** Fall, Spring, & Summer.

KIN 820. Research in Residence. 1 Credit Hour.
Used to establish research in residence for the thesis for the master’s degree after the student has enrolled for the permissible cumulative total in ESS 710 (usually six credits). Credit not granted. May be regarded as full time residence.
**Components:** PRA.
**Grading:** GRD.
**Typically Offered:** Fall & Spring.

KIN 825. Continuous Registration--Master's Study. 1 Credit Hour.
To establish residence for non-thesis master's students who are preparing for major examinations. Credit not granted. Regarded as full time residence.
**Components:** PRA.
**Grading:** GRD.
**Typically Offered:** Fall, Spring, & Summer.

KIN 830. Pre-Candidacy to Dissertation Research. 1-10 Credit Hours.
Admission to doctoral program. Requires approval of advisor and department chair.
**Components:** PRA.
**Grading:** SUS.
**Typically Offered:** Fall, Spring, & Summer.

KIN 835. Practicum. 1-2 Credit Hours.
The course presents graduate students with the theoretical and practical tools necessary for expanding their critical thinking and argumentative skills in order to present their scientific research results in an evaluative, logical and analytical manner. The course consists of weekly presentations of related literature, results, and findings on various doctoral projects.
**Components:** PRA.
**Grading:** GRD.
**Typically Offered:** Fall, Spring, & Summer.

KIN 840. Post-Candidacy Dissertation Research. 1-12 Credit Hours.
**Components:** THI.
**Grading:** SUS.
**Typically Offered:** Fall, Spring, & Summer.

KIN 850. Research in Residence. 1 Credit Hour.
Used to establish research in residence for the PH.D. Student, after the student has been enrolled for the permissible cumulative total in appropriate doctoral research. Credit not granted. May be regarded as full-time residence as determined by the Dean of the Graduate school.
**Components:** PRA.
**Grading:** SUS.
**Typically Offered:** Fall, Spring, & Summer.