KIN 105. End of Exercise Science. 3 Credits. (3 Lec) F,S
The aim of this course is to integrate the subdisciplines of exercise science (nutrition, biomechanics, exercise physiology, motor control, and exercise psychology) from the perspectives of definitions, basic science with application to health, fitness, and athletic performance.

KIN 221. 1hth Anatomy & Physiology. 3 Credits. (3 Lec) F,S,Su On Demand
This course will focus on the key elements of anatomy and physiology necessary for students in allied health professions, specifically those who will work the areas of community health, health enhancement education, health promotion, and kinesiology. The aim of this course is for students to demonstrate working knowledge of the muscular, skeletal, nervous, cardiovascular, and respiratory, endocrine, and digestive systems, as well as body metabolism.

KIN 270. Exercise Prog for Older Adults. 3 Credits. (2 Lec, 1 Lab) S
Students will examine the special exercise-related needs of older adults and learn how to safely and effectively meet those needs. The lab will provide practical experience working with older adults in exercise program for seniors.

KIN 304. Tech Applications in Hlth Sc. 3 Credits. (3 Lec) S
Skills, knowledge, and applications necessary for integrating technology into developmentally appropriate teaching practices in Health Enhancement. Identifies theories, principles, and strategies for the integration of technology into physical education, physical activity, and health settings.

KIN 320. Exercise Physiology. 4 Credits. (3 Lec, 1 Lab) F,S
PREREQUISITE: Grade of "C" or better in BIOH 201 or KIN 221, or permission of instructor. Topics include factors and mechanisms involved with causing changes and adaptations in the physiological responses to training and participating in strength and endurance sports and activities. Lectures and labs emphasize explaining common observations and practices from the physiological viewpoint point.

KIN 322. Kinesiology. 4 Credits. (3 Lec, 1 Lab) F,S
PREREQUISITE: BIOH 201 or KIN 221, and M core or permission of instructor. Emphasis on the effects of joint structures and muscles on movement of the upper extremity, lower extremity, and spine while providing an introduction to the principles of biomechanics.

KIN 325R. Biomechanics. 4 Credits. (3 Lec, 1 Lab) F,S
PREREQUISITE: FCS 371, KIN 322, M 151 or M 161, and PHSX 205.
COREQUISITE: 216Q. This course emphasizes the effects of structure, motion, forces, and their effects on and within the human body using both qualitative and quantitative analyses. Additional emphasis will be placed on the development of critical thinking skills associated with biomechanics-related research and interpretation.

KIN 410. Adv Strength Training and Cond. 3 Credits. (3 Lec) F,S
PREREQUISITE: KIN 320. Emphasizes the use of critical thinking skills for exercise development and progressions based on fundamental principles from kinesiology, biomechanics, exercise physiology, motor control, and motor learning. Preparation to obtain the Certified Strength and Conditioning Specialist (CSCS) certification, and practical application of this material to the areas of personal training, physical therapy, health enhancement teaching, and exercise physiology is emphasized.

KIN 412. Field-Based Fitness Assessment. 3 Credits. (2 Lec, 1 Lab) F,S
PREREQUISITES: KIN 320 and KIN 322, or KIN 325R. COREQUISITES: With permission of the instructor the pre-requisites may be taken concurrently. This course is designed to provide the students with the opportunity to examine and conduct physical performance field-based assessments. Field-based assessments take place in an environment that is less controlled than in laboratory settings, and where the variables that are collected are typically used to predict physiological variables.

KIN 415. Adv Exercise Test and Prescrip. 4 Credits. (3 Lec, 1 Lab) F,S
PREREQUISITE: KIN 320, STAT 216Q, with grade "C" or better in each course, or permission of instructor. Senior capstone course. Students are familiarized with the hands-on training and theoretical background needed to competently assess levels of health/fitness in a "low-risk" healthy adult population. Lecture/lab content is structured to prepare students for taking the ACSM Health Fitness Specialist (HFS) certification exam.

KIN 430. Physical Fitness Program Design and Delivery. 3 Credits. (2 Lec, 1 Lab) F,S
PREREQUISITE: KIN 320. This course focuses on the development, organization, and implementation/administration of physical fitness programs. Includes extensive field experience.

KIN 440R. Sport Psychology. 3 Credits. (3 Lec) F
PREREQUISITE: FCS 371 or consent of instructor. The application of basic principles of sport psychology for teachers and coaches, with specific emphasis on motivation, anxiety, and arousal, and selected groups of athletes.

KIN 490R. Undergraduate Research. 1-6 Credits. (1-6 Ind; 12 cr max)
-- Directed undergraduate research which may culminate in a research paper, journal article, or undergraduate thesis. Course will address responsible conduct of research.

KIN 491. Special Topics. 3 Credits. (1-4 Lec; 12 cr max) On Demand
Max 12 cr. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

KIN 492. Independent Study. 1-3 Credits. (1 Ind; 6 cr max) On Demand
Max 6 cr. PREREQUISITE: Junior standing, consent of instructor, and approval of department head. Directed research and study on an individual basis.

KIN 498. Internship. 1-12 Credits. (1-12 Ind; 12 cr max) F,S,Su
Max 12 cr. PREREQUISITE: Consent of instructor. An individualized assignment with a professional agency to provide a guided field experience.

KIN 515. Exercise Performance and Nutr. 3 Credits. (3 Lec) F
Alternates years offered odd years PREREQUISITE: Knowledge in areas of anatomy and physiology, upper division courses in one or combination of: exercise physiology, biochemistry, or nutrition. This class covers selected topics in exercise physiology, nutrition, and metabolism related to physiological function and performance. The use of nutritional supplements during exercise and the environmental influences on physiological function and metabolism will be addressed.

KIN 525. Neuromechanics of Human Movement. 3 Credits. (3 Lec) S
Alternates years offered odd years PREREQUISITE: KIN 221 or KIN 320 or KIN 325. Students will study the concepts, terms, and methods of investigating biomechanics, neuroscience/neuromechanics, motor control, and movement disorders in the human movement system.

KIN 545. Graduate Exercise Physiology. 3 Credits. (3 Lec) F
Alternates years offered even years PREREQUISITE: Graduate standing; undergraduate exercise physiology. This course defines and explains a conceptual mechanistic-driven model that explains the basis for maximizing human performance. The instructor relies heavily on readings from the current research literature and student participation to understand the plethora of topics covered.

KIN 575. Professional Paper and Project. 1-6 Credits. (1 Ind; 6 cr max) F,S,Su
PREREQUISITE: Graduate standing. A research or professional paper or project dealing with a topic in the field. The topic must have been mutually agreed upon by the student and his or her major adviser and graduate committee.

KIN 588. Professional Development. 1-3 Credits. (1-3 Lec; 3 cr max) On Demand
PREREQUISITE: Graduate standing, teaching experience and/or current employment in a school organization, and consent of instructor and Dean of the Graduate School. Courses offered on a one-time basis to fulfill professional development needs of in service educators. A specific focus is given to each course which is appropriately subtitled. May be repeated.

KIN 589. Graduate Consultation. 1-3 Credits. (1 Ind; 3 cr max) F,S,Su
PREREQUISITE: Master's standing and approval of committee chair. This course may be used only by students who have completed all of their course work (and thesis if on a thesis plan) but who need additional faculty or staff time or help.

KIN 590. Master's Thesis. 1-10 Credits. (1 Ind; max unlimited) F,S,Su
PREREQUISITE: Master's standing and approval of committee chair. Directed graduate research/creative activity. May be repeated.

KIN 591. Special Topics. 1-4 Credits. (1-4 Lec; 12 cr max) On Demand
Max 12 cr. PREREQUISITE: Upper division courses and others as determined for each offering. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

KIN 592. Independent Study. 1-3 Credits. (1 Ind; 6 cr max) On Demand
Max 6 cr. PREREQUISITE: Graduate standing, consent of instructor and approval of department head. Directed research and study on an individual basis.

KIN 594. Seminar. 1 Credit. (1 Sem; 4 cr max) On Demand
Max 4 cr. PREREQUISITE: Graduate standing or seniors by petition. Course prerequisites as determined for each offering. Topics offered at the graduate level that are not covered in regular courses. Students participate in preparing and presenting discussion material.
KIN 598. Internship. 2-12 Credits. (2 Ind; 12 cr max) On Demand
Max credits unlimited PREREQUISITE: Graduate standing, and consent of
instructor. An individualized assignment arranged with an agency, business or other
organization to provide guided experience in the field.
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.