KN 100. Kinesiology: First Year Seminar. 2 hours.
Overview of kinesiology emphasizing the key concepts of the sub-disciplines and diverse range of careers in the field. Focuses on academic and professional preparation given the integrative nature of the discipline and current trends.

KN 110. Life Skills for Student Athletes. 2 hours.
Prepares student-athletes, and those working with student-athletes, to thrive as leaders in their community and workplace, be productive members of society, and contribute value to their own life and to those with whom they interact.

KN 130. Stress Management. 3 hours.
Introduction to stress and its effects on health, with experiential application of coping strategies and relaxation techniques. Addresses conventional and innovative approaches, with a special emphasis on holistic health and wellness.

KN 136. Techniques and Principles of Exercise. 3 hours.
Teaches students how to identify, describe, execute, and progress common resistance and aerobic exercises for optimal health, athletic performance and overall fitness. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Laboratory.

KN 137. Personal Fitness. 1 hour.
Evaluation of each student's level of fitness, followed by participation in a group exercise program. Variable training modes. Discussion on fitness-related topics.

KN 150. The Healthy Human. 3 hours.
Using the core dimensions of wellness, this course prepares students to live healthy, proactive lifestyles by creating a personal framework to serve them in their daily lives. Emphasis will be on the holistic integration of body, mind, and spirit. Individual and Society course.

KN 151. Success Strategies for Anatomy and Physiology. 1 hour.
Teaches students to engage in effective study and learning strategies, with an emphasis on metacognition, for success in A&P. These metacognitive skills are transferable to other courses in the student's higher education experience. Course Information: Corequisites: Requires concurrent registration in KN 251 or KN 253.

KN 152. Introduction to Exercise Physiology and Health. 3 hours.
Provides students with the fundamental knowledge of the structure and function of the human body, particularly as it relates to the interaction between physical activity and health and disease. Course Information: Recommended background: High school chemistry, biology and/or physiology. Class Schedule Information: To be properly registered, students must enroll in one Laboratory-Discussion and one Lecture-Discussion. Natural World - With Lab course.

KN 194. Special Topics in Kinesiology. 1-3 hours.
Participation and study in selected activities in Kinesiology. Course Information: May be repeated if topics vary. Students may register in more than one section per term.

KN 200. Statistical Methods. 3 hours.
How to apply, interpret, and think critically about scientific data from the biological and health sciences. Extensive hands-on experience working with data to illustrate concepts and develop skills for decision making and analytical thinking. Course Information: Prerequisite(s): MATH 121. Class Schedule Information: To be properly registered, students must enroll in one Lecture and one Discussion.

KN 237. Sport and Exercise Psychology. 3 hours.
Presents the psychological basis for exercise and sport motivation and behavior. Focus on application of theoretical models of exercise and sport and psychological strategies to improve participation in exercise and improve sport performance. Course Information: Previously listed as KN 335. Credit is not given for KN 237 if the student has credit in KN 335.

KN 243. Exercise Assessment. 3 hours.
This introductory-level course addresses screening and assesses fitness components necessary to assess posture, body composition, strength, flexibility and cardio-respiratory endurance. Course Information: Extensive use of instrumentation. Prerequisite(s): KN 136. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

KN 245. Exercise Programming and Instruction. 3 hours.
Emphasizes how to develop and instruct individual and group exercise programs utilizing a variety of exercise modalities. Personal training, small group instruction, and group exercise techniques are included in both lecture and lab experiences. Course Information: Credit is not given for KN 245 if the student has credit in KN 240. Prerequisite(s): KN 136 and KN 243. Course Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Laboratory.

KN 246. Group Exercise Instruction. 2 hours.
Focuses on group fitness fundamentals for apparently healthy exercisers. Emphasis will be on proper exercise instruction, cuing, class organization, safety, and effective exercise planning for a variety of different class types. Course Information: Prerequisite(s): KN 245. Course Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

KN 251. Human Physiological Anatomy I. 5 hours.
The structure and function of mammalian cells and tissues and human skeletal, muscular and nervous systems are discussed. Integrating the functions of the various systems is emphasized. Course Information: 5 hours. Extensive computer use required. Prerequisite(s): Grade of C or better in BIOS 110 and cumulative GPA of at least 2.5. Class Schedule Information: To be properly registered, students must enroll in one Lecture, and one Discussion, and one Laboratory.

KN 252. Human Physiological Anatomy II. 5 hours.
The structure and function of the human endocrine, circulatory, respiratory, digestive, sensory, and reproductive systems are discussed. Integrating the functions of the various systems is emphasized. Course Information: 5 hours. Extensive computer use required. Prerequisite(s): KN 251. Class Schedule Information: To be properly registered, students must enroll in one Lecture, and one Discussion, and one Laboratory.

KN 253. Human Anatomy and Physiology I. 4 hours.
The structure and function of mammalian cells and tissues and human skeletal, muscular and nervous systems are discussed. Integrating the functions of the various systems is emphasized. Course Information: Credit is not given for KN 253 if the student has credit for KN 251. Extensive computer use required. Prerequisite(s): Grade of C or better in BIOS 110; Cumulative GPA of at least 2.5.

KN 254. Human Anatomy and Physiology II. 4 hours.
The structure and function of the human endocrine, circulatory, respiratory, digestive, sensory, and reproductive systems. Emphasis on integrating the functions of the various systems. Course Information: Credit is not given for KN 254 if the student has credit for KN 252. Extensive computer use required. Prerequisite(s): KN 253; or KN 251.
KN 255. Anatomy Laboratory I. 1 hour.
The first of a series of two courses covering the lab portion of anatomy of the human body. Course Information: Credit is not given for KN 255 if the student has credit for KN 251. Prerequisite(s): Credit or concurrent registration in KN 253 or the equivalent.

KN 256. Anatomy Laboratory II. 1 hour.
The second in a series of two courses covering the lab portion of anatomy of the human body. Course Information: No credit given if the student has credit in KN 252. Prerequisite(s): Credit or concurrent registration in KN 254 or the equivalent.

KN 261. Applied Musculoskeletal Anatomy. 3 hours.
Designed to provide a foundational knowledge base regarding the structure of the human musculoskeletal system as it relates to movement and function. Course Information: Prerequisite(s): KN 251 or KN 253.

KN 262. Training Methods for Core Stability. 3 hours.
Students learn methods to assess and program core stability for a variety of populations in the contexts of posture, endurance, strength and flexibility. Extensive use of Pilates equipment and small apparatus. Prerequisite(s): Junior standing or above; and consent of the instructor. Recommended background: KN 261. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Laboratory.

KN 294. Special Topics in Kinesiology. 1-3 hours.
Selected topics in Kinesiology. Course Information: May be repeated if topics vary. Students may register in more than one section per term.

KN 299. Study Abroad in Kinesiology and Nutrition. 0-18 hours.
Provides credit for study abroad. Student's proposal must have prior approval of the student's major program or department. Final determination of credit is made on the student's completion of the work. Course Information: May be repeated for a maximum of 36 hours.

KN 300. Research Methods and Inquiry in Kinesiology. 3 hours.
Introduces undergraduate students to inquiry processes and research methods applied in the field of Kinesiology. Course Information: Recommended background: KN 200 or PSCH 242.

KN 331. Sport and Exercise Injury Management. 3 hours.
Fundamental management of exercise and sport related injuries and conditions. Course Information: Prerequisite(s): KN 261. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

KN 336. Health Coaching. 3 hours.
Behavior change approaches with diverse patients/clients using foundational health coaching and motivational principles. Students use communication, coaching and comportment skills to help guide others in the pursuit of healthy lifestyle habits. Course Information: Previously listed as KN 436. Credit is not given for KN 336 if the student has credit for KN 436. Prerequisite(s): KN 237.

KN 337. Psychology of Injury and Recovery. 3 hours.
Introduces the psychological, social, and emotional experiences associated with the acquisition and experience of physical injuries. Course Information: Prerequisite(s): KN 237.

KN 345. Exercise Assessment and Programming. 3 hours.
Emphasizes a variety of advanced experiences in integrating assessment and programming techniques and approaches to exercise, fitness, health and sport. Course Information: Prerequisite(s): KN 243 and KN 245 and KN 251. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

KN 350. Cadaver Dissection I. 2 or 3 hours.
Cadaver dissection using the regional approach. Dissection of the musculo-skeletal system, spinal cord and peripheral nervous system. Course Information: Prerequisite(s): Grade of B or better in KN 251; or consent of the instructor.

KN 351. Cadaver Dissection II. 2 or 3 hours.
Cadaver dissection using the regional approach method. Dissection of the brain, cardiovascular, respiratory, digestive, urinary and reproductive systems. Course Information: Prerequisite(s): Grade of B or better in KN 252 or consent of instructor.

KN 352. Physiology of Exercise. 4 hours.
The physiological responses associated with acute and chronic physical exercise; muscular, circulatory, respiratory and nervous systems. Course Information: Prerequisite(s): KN 152; and KN 252 or KN 254. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

KN 361. Movement Biomechanics. 3 hours.
Introduces students to the science of mechanics with a particular emphasis on the application of mechanics to the analysis of normal and pathological human and animal movement. Course Information: Previously listed as KN 260. Prerequisite(s): MATH 121 and KN 261 and PHYS 131 or higher.

KN 362. Tissue Biomechanics. 3 hours.
Introduces students to the biomechanics of the tissues of the body, emphasizing the musculoskeletal system. Students will study the structure-function relationship of tissues, and how this relationship is disrupted with disease or injury. Course Information: Credit is not given for KN 362 if the student has credit in KN 465. Prerequisite(s): MATH 121; and PHYS 131.

KN 372. Motor Control and Learning. 3 hours.
Introduction to basic principles regarding the acquisition and control of human movements. Course Information: Prerequisite(s): KN 252.

KN 393. Undergraduate Internship in Kinesiology. 3 or 6 hours.
This course will provide students with a working experience at a professional job site where they can apply the knowledge, skills and abilities they have learned in the program. Course Information: Field work required. Students must provide their own transportation to and from internship sites. Prerequisite(s): Approval of the department and completion of all required courses for the chosen internship site.

KN 394. Special Topics in Kinesiology. 1-3 hours.
Flexible course structure designed to accommodate additional topics not covered in current course offerings. Topic examples include muscle physiology, psychology of physical activity, biomechanics and motor control of special populations. Course Information: May be repeated if topics vary. Students may register in more than one section per term. Prerequisite(s): Sophomore standing or above; and consent of the instructor.

KN 396. Special Project. 1-3 hours.
Selected topics in Kinesiology for individual study. Course Information: May be repeated to a maximum of 6 hours. Prerequisite(s): Approval of student project by the KN 396 instructor and supervising instructor.

KN 397. Special Project Presentation. 1 hour.
Students will prepare and present their experiential learning project in a public forum. Emphasis will be on building the competencies of scientific communication and professionalism. Course Information: Prerequisite(s): KN 396.
KN 398. Undergraduate Research. 1-3 hours.
An in-depth research analysis for the development of a research proposal in the student's area of interest. Review current literature, investigate various research methodologies, review the relevant research policies, and develop a proposed project. Course Information: Prerequisite(s): Approval of the department.

KN 399. Undergraduate Research Presentation. 1 hour.
The implementation of the proposal developed in KN 398. Data collection, analysis and interpretation will provide the basis for the written project. The project will be presented in an open forum to faculty and other students. Course Information: Prerequisite(s): KN 398.

KN 400. Entrepreneurship for Applied Health Professionals. 3 hours.
Relates the theory, principles and practices applied in entrepreneurial start-up settings in healthcare and human performance professions. Course Information: Prerequisite(s): KN 252.

KN 410. Aging and the Motor System. 3 hours.
Introduction to aging with a focus on its impact on the physical structure and function of the neural, muscular and skeletal systems; the mechanics through which the trajectory of aging can be potentially modified. Course Information: Prerequisite(s): KN 252.

KN 431. Lower Extremity Overuse Injury. 3 hours.
Critical review of the literature related to lower extremity overuse injury; current practices and research gaps in the prevention and treatment of these injuries; movement assessment and corrective exercise to prevent and care of these injuries. Course Information: Prerequisite(s): KN 261 and KN 331. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Laboratory.

KN 432. Foundations of Positive Psychology. 3 hours.
Introduces students to positive psychology and the opportunities for human development channeling positive thoughts, emotions and behaviors to achieve life, relationships and legacy goals. Course Information: Prerequisite(s): Acceptance into the concentration in Performance, Sport and Exercise Psychology within the MS in Kinesiology or consent of the instructor.

KN 433. Sociocultural Perspectives in Performance, Sport and Exercise Psychology. 3 hours.
Pertinent sociological issues and theories will be examined in the scholarly pursuit of knowledge and understanding of the sociological and cultural influences in the field of performance, sport and exercise psychology. Course Information: Prerequisite(s): Acceptance into the concentration in Performance, Sport and Exercise Psychology within the MS in Kinesiology or consent of the instructor.

KN 434. Business Branding in Performance, Sport and Exercise Psychology. 3 hours.
Designed to help students build a coaching and/or consulting business for face-to-face and virtual clients. Course Information: Prerequisite(s): Acceptance into the concentration in Performance, Sport and Exercise Psychology within the MS in Kinesiology or consent of the instructor.

KN 435. Sport Psychology for Individual and Team Performance. 3 hours.
Analysis and application of psychological concepts related to process and outcomes of sport and exercise programs. Course Information: Prerequisite(s): KN 237 or KN 335.

KN 438. Advanced Sport and Exercise Psychology. 3 hours.
Explores research on the psychological effects of sport and exercise across the lifespan. Emphasis will be placed on understanding research methods and applying knowledge of consequences in practice. Course Information: Prerequisite(s): KN 237. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Laboratory.

KN 441. Muscle Physiology. 3 hours.
Examination of skeletal muscle function during physical activity and adaptations of skeletal muscle that occur with exercise training, inactivity and aging. Course Information: Prerequisite(s): KN 352.

KN 442. Principles of ECG Interpretation. 3 hours.
Introduction to the basic principles and interpretation of the electrocardiogram (ECG) as it relates to fitness programs involving the apparently healthy as well as cardiac rehabilitation patients. Course Information: Prerequisite(s): Grade of C or better in KN 352; and junior standing or above; or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture/Discussion and one Laboratory.

KN 445. Corrective Exercise for Postural and Movement Imbalances. 3 hours.
Focuses on how to develop, integrate, and apply comprehensive strategies to identify, assess, and improve common postural and muscular imbalances which contributes to movement impairments. Course Information: Prerequisite(s): KN 243. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

KN 447. Mental Health in Athletics. 3 hours.
Designed to advance student understanding and response to current and emerging mental health issues in athletics. Course Information: Prerequisite(s): Junior standing or above.

KN 448. Adapted Exercise Programming. 3 hours.
Examines the criteria for exercise and fitness participation for individuals with disabilities or chronic health conditions. Course Information: Previously listed as KN 348. Prerequisite(s): KN 345.

KN 450. Exercise Programming for Athletic Performance. 3 hours.
Students develop the required knowledge and competencies to complete professional credential examinations with nationally and internationally recognized organizations such as the National Strength and Conditioning Association. Course Information: KN 345 or consent of instructor.

KN 452. Advanced Exercise Physiology. 3 hours.
Builds on the science foundation provided by KN 352 to examine timely and emerging topics in exercise physiology. Students will develop skills for critical thinking, problem solving, and forming and defending a scientific opinion. Course Information: Prerequisite(s): KN 352. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Laboratory.

KN 460. Neuromechanical Basis of Human Movement. 3 hours.
Biomechanics of single and multi-joint systems, and its role in neural control of movement. Mechanisms of acute adaptations including warm-up, fatigue and potentiation, and chronic adaptations arising from reduced use or training. Course Information: Prerequisite(s): KN 361.
KN 465. Biomechanics of the Neuromusculoskeletal Systems. 3 hours.
Introduces the non-engineering/physics student to the biomechanics of the neural, muscular and skeletal systems. The course focuses on normal structure-function of tissues and joints, injury and prevention. Course Information: Previously listed as KN 365. Prerequisite(s): KN 361 or one year of college physics; or consent of the instructor.

KN 472. Movement Neuroscience. 3 hours.
Overview of the neurophysiology of human movement. This course will cover the mechanisms and neural circuitry of sensory and sensorimotor processes underlying the control of movement. Course Information: Prerequisite(s): KN 252. Recommended background: KN 352 and KN 372.

KN 475. Movement Disorders. 3 hours.
Examines basic and applied understanding of the neural changes in motor function in disease and disorders of movement. This will include peripheral and central motor deficits. Prerequisite(s): KN 352 and KN 372.

KN 491. Professional Preparation. 3 hours.
Advances student employability and graduate school success in five domains: problem solving, communication, team work, adaptability, and emotional intelligence; helps students develop five key skill competencies. Course Information: Prerequisite(s): Junior standing or above.

KN 493. Practicum in Undergraduate Teaching. 1-3 hours.
Peer instruction experience for undergraduate students. Course Information: May be repeated to a maximum of 6 hours. Students must register for more than one section per term. Prerequisite(s): Students must have successfully completed the course in which they will be assisting (or an equivalent) and obtain consent of the instructor.

KN 494. Special Topics in Kinesiology. 1-3 hours.
Flexible course structure designed to accommodate relevant topics beyond the scope of the current course offerings, with more in-depth analysis of primary literature. Course Information: May be repeated if topics vary. Students may register in more than one section per term. Prerequisite(s): Depending on topic, specific prerequisites may be required.

KN 495. Senior Seminar. 1 hour.
Challenges students to integrate concepts learned in previous courses to solve problems and come to conclusions on health-related topics. It also prepares students for their immediate post-baccalaureate professional steps. Course Information: Prerequisite(s): Senior standing or above.

KN 496. Special Projects in Kinesiology. 1-3 hours.
Independent research on special projects. Course Information: Prerequisite(s): Approval by graduate faculty member and graduate director.