KINESIOLOGY

KNES120A Fitness Walking (1 Credit)
This is a co-ed physical activity course for beginning fitness walking.

KNES151 Professional Lifeguard Training (1 Credit)
Lifeguarding will prepare students to respond to emergencies, promote safety in aquatic environments, and may even appeal to a future employer looking for a proven leader. Throughout the course, students will work towards American Red Cross certification requirements, including lifeguarding, CPR/AED, and First Aid. This class will also place an emphasis on professionalism, communication, teamwork, problem solving, and emergency response.

Recommended: Intermediate swimming skills, confidence in deep water.
Credit Only Granted for: KNES151 or KNES154W.
Formerly: KNES154W.

Additional Information: Students may obtain a lifeguard certificate/credential by passing a separate exam and skills test from the certifying organization. This is optional, and not required to earn course credit in the KNES151 course.

KNES156 Pickleball (1 Credit)
This is a co-ed physical activity course for pickleball.

KNES200 Introduction to Kinesiology (3 Credits)
Kinesiology is the interdisciplinary study of physical activity that includes seven sub-disciplines: 1) exercise physiology; 2) biomechanics; 3) sport psychology; 4) motor development; 5) motor control; 6) sport history; and 7) sport sociology. This course will examine these areas of study within Kinesiology from scientific and applied perspectives.

Restriction: Must be a Kinesiology major within first 2 semesters; or must not be in Kinesiology program and have less than 60 credits.
Credit Only Granted for: KNES200 or KNES201.

KNES201 Kinesiological Principles of Physical Activity (1 Credit)
An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.
Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department.
Restriction: Must be in a major in SPHL-School of Public Health.
Credit Only Granted for: KNES200 or KNES201.

KNES214 Science and Methods of Personal Fitness Instruction (3 Credits)
Basic concepts of human anatomy, exercise physiology, applied kinesiology, nutrition and the physiology of exercise training. Includes the CORE knowledge required for the American Council on Exercise (ACE) Personal Trainer certification.
Credit Only Granted for: KNES214 or KNES210 and KNES211, or KNES210 and KNES212, or KNES289N.
Formerly: KNES210/KNES211, KNES210/KNES212, and KNES289N.

KNES218 Laboratory in Teaching (1 Credit)
The course is designed to prepare the student for the student teaching experience by assisting in a class.
Prerequisite: Permission of SPHL-Kinesiology department.
Repeatable to: 2 credits.

KNES222 Gambling in the New Millennium: Poker, The Preakness, Point-spreads, Powerball and Public Policy (3 Credits)
Is gambling in the public interest? Students will critically examine the various implications of "what it means to gamble" through investigations of various gambling forms, different sectors of the gambling industry and the related economics, along with consumer behavior, sport, public policy and public health in this context.
Recommended: ENGL101 and COMM107.

KNES225 Hoop Dreams: Black Masculinity and Sport (3 Credits)
Has sport disadvantaged African American males? This course critically examines sport as a site where notions of black masculinity are publicly debated, critiqued, challenged, celebrated, and also transformed. Utilizing an interdisciplinary approach, this course explores how sport has been invoked across the political and ideological spectrum to interrogate a number of issues impacting the life chances of young, African Americans males including educational attainment, poverty, social mobility, racism, cultural production, and notions of masculinity.
Credit Only Granted for: KNES289W OR KNES225.
Formerly: KNES289W.

KNES226 The Cybernetic Human (3 Credits)
Can the profound and rapid technological advances experienced in the 21st century change what it means to be human or the nature of humanity? Emergent technologies, new materials, increased computer power, engineering innovations, and groundbreaking work in the sciences of cognition and action provide myriad opportunities for repairing and enhancing the human body and brain. Examines the ethical, social, and technological implications of an increasing synergism of technology and the body in sports and the arts, at work or home, rehabilitating the body and the brain, and society at large.
Credit Only Granted for: KNES289W OR KNES226.
Formerly: KNES289W.

KNES235 Swimming Pool Management (2 Credits)
Analysis of the position of the swimming pool manager. The systematic treatment of swimming pool water; swimming pool first aid; and laws pertaining to swimming pool operation. Qualifies the student for a pool operator’s license in most Maryland counties.
Credit Only Granted for: KNES235 or KNES335.
Formerly: KNES335.

KNES243 Sports Finance & Business Intelligence (3 Credits)
As society has evolved with advances in technology, so have the financial and analytical fundamentals of spectator sports leagues. In this course, students will examine modern business principles in for-profit sports leagues, understand current practices for successful operation and revenue generation, and explore how analytics and emerging categories play a crucial role in an organization’s growth and competitiveness in their respective markets.

KNES246 Transformational Leader in Sport: The Art and Science of Coaching (3 Credits)
Highlights the expectations and ethical problems facing developmental sport programs and youth athletic coaches today. Explores the continuum of coaching from Buttermaker (Bad News Bears) to Belichick (New England Patriots). We first examine the issues of sports, physical inactivity and obesity from a physiological, psychological, social, political, and economic perspective. Next, we will focus on how transformational leadership behaviors, knowledge, and communication influence changes in intrapersonal, interpersonal, and environmental aspects. Finally, we will employ a practical, manageable method for coaches to develop their athletes and programs.
KNES260 Science of Physical Activity and Cardiovascular Health (3 Credits)
Course details (1) the public health importance of and the processes underlying cardiovascular disease, (2) the risk factors for cardiovascular disease and the methods whereby they were identified, and (3) the principles of the scientific evidence supporting the use of physical activity to prevent cardiovascular disease.

KNES265 Mathematical, Physical, & Statistical Basis of Kinesiology (3 Credits)
Mathematical, physical, and statistical foundations for human movement quantification, analysis, and evaluation. Upon successful completion, this course is expected to better prepare students for the science Core courses, such as biomechanics, exercise physiology, and motor control, that are required for Kinesiology majors.
Credit Only Granted for: KNES265 or KNES289P.
Formerly: KNES289P.

KNES282 Basic Care and Prevention of Athletic Injuries (3 Credits)
Theoretical and practical foundations of the prevention, treatment and rehabilitation of athletically related injuries. Topics include: physical conditioning, preventive taping, recognition of injuries, first aid and CPR.
Restriction: Must be in a major within the SPHL-Kinesiology department.
Credit Only Granted for: KNES282 or KNES381.

KNES285 History of Physical Culture, Sport, & Science in America (3 Credits)
Examines the history of physical culture in America, focusing on the period from the end of the Civil War to the Cold War. Physical culture refers to a broad range of movement practices including sport, play, rehabilitative exercise, health and fitness training, and recreation and leisure. More specifically, we challenge the idea that historical physical culture practices--and the scientific processes from which they were derived--were 'neutral' or 'objective'; rather, we explore the cultural, social, political, and economic contexts shaping physical culture knowledge, study, structures, and policies across American history. The goal is for you to learn and apply techniques of historical analysis to develop a critical understanding of how knowledge about, and practices of, physical culture supported a particular social order via the construction of difference, norms, and/or hierarchies, and ultimately contributed to some of the inequalities that endure today.
Restriction: Restricted to majors or non-majors with less than or equal to 60 credits.
Credit Only Granted for: KNES285 or KNES293.

KNES286 Empowering Healthy Physical Activity (3 Credits)
Learn evidence-based techniques that health professionals use to promote physical activity programs that meet the needs of diverse populations. Develop and implement an intervention plan targeting a specific population.

KNES287 Sport and American Society (3 Credits)
Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.
Recommended: Minimum grade of C- in KNES285.

KNES289 Topical Investigations (1-6 Credits)
Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses. Repeatable to: 6 credits.

KNES293 History of Sport in America (3 Credits)
The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalism, amateurism, and international involvement.

KNES300 Biomechanics of Human Motion (4 Credits)
The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.
Prerequisite: Minimum grade of C- in BSCI201; and minimum grade of C- in MATH113 or higher.
Recommended: KNES265 or PHYS121.
Restriction: Must be in a major within SPHL-Kinesiology department.

KNES305 Principles & Application of Exercise Rehabilitation (3 Credits)
In-depth analysis of the basic principles of rehabilitation and exercise programming for common injuries encountered in a clinical setting. Basic assessment techniques, ranges of motion, muscular anatomy, rehabilitative protocols, and exercise modalities are a major focus.
Prerequisite: Minimum grade of C- in BSCI201 and BSCI202; and 1 course with a minimum grade of C- from (KNES300, KNES350, KNES360, KNES370, KNES385).
Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.
Credit Only Granted for: KNES498T or KNES305.
Formerly: KNES498T.

KNES306 Prosthetics for Limb Amputations (3 Credits)
Introduction to the science of prosthetics and the artificial devices that are designed, developed and fit to replace the missing body part or parts lost through trauma, disease or congenital conditions.
Prerequisite: Minimum grade of C- in BSCI201, BSCI202, and KNES300.
Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.
Credit Only Granted for: KNES306 or KNES498W.
Formerly: KNES498W.

KNES320 Physiological Basis of Physical Activity and Human Health (4 Credits)
A study of the responses and chronic adaptations to physical activity and exercise, with particular emphasis on the interaction between human health and physical activity. The laboratory component of course will focus on the assessment of physical activity and measurement of physiological adaptations to exercise. Students are expected to gain an understanding and appreciation for the benefits of physical activity and exercise in the context of public health.
Prerequisite: Minimum grade of C- in BSCI201 and BSCI202.
Restriction: Must be in Public Health Science program.
Credit Only Granted for: KNES360 or KNES320.

KNES332 Exercise Testing & Prescription for Fitness Professionals (3 Credits)
Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population. Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.
Prerequisite: Minimum grade of C- in KNES360.
Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.
Credit Only Granted for: KNES332 or KNES389G.
Formerly: KNES389G.
KNES333 Motor Development and Fitness for Individuals with Disabilities (3 Credits)
Implications of Federal and State regulations for planning and implementing motor development and physical fitness programs for individuals with disabilities. Evaluation strategies for assessing motor performance and fitness levels in educational programs for these individuals.
Prerequisite: Minimum grade of C- in KNES370.
Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 60 credits.

KNES334 Adapted Physical Activity: Empowering People with Disabilities to Lead a Healthy and Active Lifestyle (3 Credits)
Study of the field of adapted physical activity and its impact on the health and wellness of individuals with disabilities. Students will design an adapted physical activity program proposal and develop the skills needed to empower people with disabilities to participate in physical activity and sports programs. Students will explore their own perceptions towards disability and how people with disabilities are portrayed in our society. They will study the etiology of disabling conditions and the implications for participating in physical activity.
Prerequisite: KNES370; or students not in the Kinesiology major may contact the instructor for permission.
Restriction: Must have earned a minimum of 90 credits.
Credit Only Granted for: KNES498L or KNES334.
Formerly: KNES498L.

KNES342 Sport, Commerce, and Culture in the Global Marketplace (3 Credits)
The Sport, Commerce, and Culture in the Global Marketplace study abroad program is designed for students who are interested in the relationship between sport, culture, and the contemporary global economy.
Recommended: KNES287.
Credit Only Granted for: KNES389A or KNES342.
Formerly: KNES389A.

KNES346 Sport for Development (3 Credits)
Examines how sport-based programs and organizations are used by governments, multinational corporations, and non-government organizations (NGO’s) to reach personal, community, national and international development objectives; focuses on theorizing the histories of international development and contemporary global issues; contextualizes the interrelationship of theory, institutions, and practices of domestic and international sport for development and peace programing.
Prerequisite: Must have earned a minimum grade of C- in KNES287.
Recommended: KNES485.
Restriction: Must be a major within the SPHL-Kinesiology department and must have earned a minimum of 75 credits.
Credit Only Granted for: KNES389D or KNES346.
Formerly: KNES389D.

KNES347 Sport Economics (3 Credits)
Examines sport as a diverse cultural form through which physical activity is organized, regulated, and consumed within contemporary society. Evaluation of the complex interactions between sport culture economic institutions and forces.
Prerequisite: Minimum grade of C- in KNES287.
Recommended: KNES355, ECON111, and ECON200.
Restriction: Must have earned a minimum of 75 credits.
Credit Only Granted for: KNES347 or KNES389I.
Formerly: KNES389I.

KNES350 The Psychology of Sports & Exercise (3 Credits)
An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.
Restriction: Must have earned a minimum of 45 credits.

KNES355 Sport Management (3 Credits)
Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.
Prerequisite: Minimum grade of C- in KNES287.
Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.
Credit Only Granted for: KNES355 or KNES498M.

KNES360 Physiology of Exercise (4 Credits)
A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.
Prerequisite: Minimum grade of C- in BSCI201 and BSCI202; or permission of SPHL-Kinesiology department.
Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

KNES370 Motor Development (3 Credits)
Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.
Restriction: Must be in a major within SPHL-Kinesiology department.

KNES385 Motor Control and Learning (4 Credits)
This introductory course investigates how humans control and adapt their movements to perform and learn a variety of motor skills, ranging from activities of daily living to elite athlete performance. This course examines the underlying cognitive, sensory and motor processes of control and adaptation of human movements both at the behavioral and neurophysiological levels. Relevant applications to movement rehabilitation as well as performance optimization are employed to illustrate the concepts discussed in class. The cognitive, sensory and motor mechanisms underlying motor control are explored first and then in a motor learning context.
Prerequisite: Minimum grade of C- in BSCI201; and a minimum grade of C- in MATH113 or higher.
Recommended: KNES265 or PHYS121.
Restriction: Must be in a major within SPHL-Kinesiology department.

KNES386 Experiential Learning (3-6 Credits)
Explore and analyze concepts and procedures related to a quality service-learning experience to include planning, implementing, and evaluating a service-learning project.
Prerequisite: Must have completed three KNES core classes.
Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.

KNES388 Topical Investigations (1-3 Credits)
Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.
Repeatable to: 6 credits.
KNES400 The Foundations of Public Health in Kinesiology (3 Credits)
An investigation of the role of physical activity and inactivity in relation to health and well-being through a public health perspective. Past and current perspectives on health promotion, health education, and social policies and approaches will be examined for various populations.
**Prerequisite:** Minimum grade of C- in KNES287.
**Restriction:** Senior standing or higher; and must be in a major within the SPHL-Kinesiology department.
**Credit Only Granted for:** KNES400 or KNES498A.
Formerly: KNES498A.

KNES401 Zip Code: Prediction of Physical Activity & Health (3 Credits)
An exploration of the relationship and impacts of built and other social environments on health, including physical activity, social equity, gentrification, and many others.
**Prerequisite:** Minimum grade of C- in SPHL100.
**Restriction:** Must have earned a minimum of 75 credits; and must be in a major within, SPHL-Kinesiology department.
**Credit Only Granted for:** KNES401 or KNES498A.
Formerly: KNES498A.

KNES402 Biomechanics of Sport (3 Credits)
Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.
**Prerequisite:** Minimum grade of C- in KNES300.
**Restriction:** Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.

KNES405 Principles & Techniques of Manual Muscle Testing (3 Credits)
It is critical for sports medicine and sport performance specialists to understand the location and inter-relationships of the structures of the body that impact human movement. Thus, the primary purpose of this course is to facilitate an in-depth, understanding of the muscles of the body. Specifically, students will learn the origins, insertions, primary and secondary functions, as well as nervous innervations of the major muscle groups of the body. In addition, students will develop palpation skills and learn to grade the function of each muscle through manual muscle testing techniques. These skills form the foundation for assessing functional movement as well as performing safe and effective manual therapy techniques. Thus, while the focus of the class will be to develop sound, introductory palpation and manual muscle testing skills, basic principles of functional movement and manual therapy will also be addressed through hands-on application as well as case study.
**Prerequisite:** Minimum grade of C- in BSCI201 and BSCI202; and 1 course with a minimum grade of C- from Kinesiology core courses at the 300-level or higher.
**Restriction:** Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 90 credits.

KNES442 Psychology of Exercise and Health (3 Credits)
Examines the antecedents and consequences of exercise behavior. Explores motivation, attitude, control, socialization. Proposes intervention strategies at the individual, organizational and societal levels.
**Prerequisite:** Minimum grade of C- in KNES350.
**Restriction:** Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.
**Credit Only Granted for:** KNES442 or KNES498O.
Formerly: KNES498O.

KNES445 Exercise and Brain Health (3 Credits)
Examines the evidence for exercise to affect brain function and brain health in children, in adults, and in old age. Covers the adaptations to acute and chronic exercise within brain networks related to emotion, stress reactivity, memory, and executive function, and the effectiveness of physical activity and exercise as treatments for depression, anxiety disorders, and cognitive impairment.
**Prerequisite:** Minimum grade of C- in KNES350.
**Restriction:** Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.
**Credit Only Granted for:** KNES498C or KNES445.
Formerly: KNES498C.

KNES451 Children and Sport: A Psychosocial Perspective (3 Credits)
Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.
**Prerequisite:** Minimum grade of C- in KNES350.
**Restriction:** Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 90 credits.

KNES455 Scientific Bases of Athletic Conditioning (3 Credits)
An examination of physical fitness/athletic conditioning programs stressing the practical application of exercise physiology theory for enhancing athletic performance. Cardiovascular considerations, strength and power development, nutrition, speed, muscular endurance, environmental considerations and ergogenic aids.
**Prerequisite:** Minimum grade of C- in KNES360.
**Restriction:** Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.

KNES457 Managing Youth Programs: Educational, Fitness and Sport (3 Credits)
An examination of the basic functions involved in managing physical education, fitness, and youth sports programs. Focus on leadership skills, organizational management, and techniques for applying learned skills in a variety of organizational settings that serve the nation’s youth.
**Prerequisite:** Minimum grade of C- in KNES350 and KNES370.
**Restriction:** Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.
**Credit Only Granted for:** KNES457 or KNES498Y.

KNES460 Physiology of Aging and the Impact of Physical Activity (3 Credits)
Biological and psychological processes in healthy individuals and those with chronic disease, the effects of exercise, exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays in enhancing the quality of life and activities of daily living in individuals.
**Prerequisite:** 1 course with a minimum grade of C- from (KNES320, KNES360).
**Restriction:** Must be in one of the following programs (Kinesiology; Public Health Science); and must have earned a minimum of 75 credits.
**Credit Only Granted for:** KNES498F or KNES460.
Formerly: KNES498F.
KNES461 Exercise and Body Composition (3 Credits)
An in-depth overview on how body composition is measured, what it is composed of, and the physiological and biochemical signals that change it. The effects of acute and chronic exercise on food storage, breakdown, and use as an energy source, is the major focus. This information is applied to important issues in public health and athletic performance. **Prerequisite:** 1 course with a minimum grade of C- from (KNES320, KNES360).
**Restriction:** Must be in one of the following programs (Kinesiology; Public Health Science) ; and must have earned a minimum of 75 credits.

KNES462 Neural Basis of Human Movement (3 Credits)
An introduction to the neural substrates which underlie postural and volitional movement. Neuroanatomical and neurophysiological basis of motor functioning; past and present conceptualizations of motor control and coordination; movement disorders; and maturation of the neuromuscular system. **Prerequisite:** Minimum grade of C- in BSCI201, BSCI202, and KNES385; or permission of SPHL-Kinesiology department. **Restriction:** Must have earned a minimum of 75 credits.

KNES463 Principles and Methods of Physical Activity Interventions (3 Credits)
Understanding of the planning, implementation, and evaluation of physical activity interventions. Intervention methods and practical strategies fo formulate well-conceived physical activity interventions across a variety of settings and participant populations. **Prerequisite:** Minimum grade of C- in KNES350 and KNES360. **Restriction:** Must have earned a minimum of 75 credits. **Credit Only Granted for:** KNES463 or KNES498G.

KNES464 Exercise Metabolism: Role in Health and Disease (3 Credits)
Examines the role of metabolism in kinesiology, especially as it relates to physical inactivity, health and disease. Includes bioenergetics, substrate utilization, cell signaling, and metabolic gene expression and their impact on chronic health conditions or disease. **Prerequisite:** Minimum grade of C- in KNES360. **Restriction:** Must have earned a minimum of 75 credits. **Credit Only Granted for:** KNES464 or KNES498L.

KNES465 Physical Activity and Disease Prevention and Treatment (3 Credits)
Critically examines the scientific evidence that supports the use of physical activity to prevent and treat age-related diseases, including cardiovascular disease, diabetes, abnormal lipoprotein-lipid levels, hypertension, obesity, osteoporosis and cancer. **Prerequisite:** 1 course with a minimum grade of C- from (KNES320, KNES360). **Restriction:** Must have earned a minimum of 75 credits. **Credit Only Granted for:** KNES465 or KNES498A.

KNES466 Graded Exercise Testing (3 Credits)
Functional and diagnostic examination of the cardiovascular responses to graded exercise testing. Emphasis on electrophysiology, mechanisms of arrhythmias, normal electrical activation of the heart, axis termination and the normal 12-lead electrocardiogram. **Prerequisite:** Minimum grade of C- in KNES360. **Restriction:** Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.

KNES467 Genetics in Physical Activity and Sport (3 Credits)
Dedicated to understanding the role of genetics in kinesiology, especially within the contexts of physical activity and sport. Specific genes and phenotypes will be explored. **Prerequisite:** Minimum grade of C- in KNES360. And must be concurrently enrolled in STAT100 or have completed STAT100 with a minimum grade of C-; or students who have taken courses with comparable content may contact the department. **Restriction:** Must have earned a minimum of 75 credits. **Credit Only Granted for:** KNES467 or KNES498Q.

KNES474 Quantitative Methods in Cognitive Motor Behavior - MATLAB (3 Credits)
Includes basic computer programming, algorithm, and quantitative techniques for time-series data with an emphasis on, but not limited to, human movement. These topics will be taught using MATLAB, a programming language and environment for numerical computation, data analysis, and visualization. **Prerequisite:** MATH115 or equivalent; or permission of Kinesiology department. **Recommended:** MATH240. **Restriction:** Must have earned a minimum of 75 credits. **Credit Only Granted for:** KNES498Q or KNES474. **Formerly:** KNES498Q.

KNES476 Honors Thesis Proposal (3 Credits)
Development of honors thesis proposal based on preliminary research and literature review. Presentation of formal proposal to the thesis committee and fellow honors students. **Corequisite:** KNES478. **Restriction:** Must be a KNES Honors student; and senior standing. **Credit Only Granted for:** KNES476 or KNES498R.

KNES477 Honors Thesis (3 Credits)
Adviseement will be on the individual basis. Thesis must be defended in the honors seminar. **Prerequisite:** KNES476. **Corequisite:** KNES478. **Restriction:** Must be a KNES Honors student; and senior standing. **Credit Only Granted for:** KNES399 or KNES477.

KNES478 Honors Seminar (1-3 Credits)
Guided discussion of research topics of current interest. **Restriction:** Must be a KNES Honors student; and junior standing or higher. **Repeatable to:** 4 credits if content differs. **Credit Only Granted for:** KNES398 or KNES478.

KNES482 Socio-behavioral Aspects of Human Movement (3 Credits)
Derivation, formulation, and application in research in the socio-behavioral aspects of human movement. **Prerequisite:** KNES293, KNES350, and KNES287.

KNES483 Sport Marketing and Media (3 Credits)
Industry practices in sport marketing and media. Marketing strategies and consumer behavior in different sport contexts. Critical examination of selected social and economic issues related to the buying and selling of sport. **Prerequisite:** Minimum grade of C- in KNES287. **Recommended:** KNES355. **Restriction:** Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.
KNES484 Sporting Hollywood (3 Credits)
Popular representations of sport within the film media related to wider social discourses on bodies and the politics of various categories of subjectivity (gender, sex, race, class and nationality).
Prerequisite: Minimum grade of C- in KNES285 and KNES287.
Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.

KNES485 Sport and Globalization (3 Credits)
Examination of sport culture from a global perspective; focuses on theorizing the similarities and differences between various national sporting cultures.
Prerequisite: Minimum grade of C- in KNES287.
Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.

KNES487 Women, Sports and Culture (3 Credits)
A study of the historical barriers to women's participation in physical activity, efforts to dismantle those barriers, and the differentiation that exists in women's sport and physical culture today. Exploration of the historical and contemporary factors involving female athletes in U.S. culture.
Prerequisite: Minimum grade of C- in KNES287.
Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.
Credit Only Granted for: KNES498E or KNES487.

KNES497 Kinesiology Senior Seminar (3 Credits)
Discussions of contemporary issues vital to the discipline, critiques of research in the student’s area/areas of special interest, completion of a major project where the student will be asked to demonstrate the ability to carry out investigative processes in problem solving and critical writing under faculty direction.
Prerequisite: A professional writing course with a minimum grade of C-; and must have completed 6 KNES core courses and 2 KNES option courses, all with a C- or higher; and must have completed STAT100 with a C- or better.
Restriction: Senior standing or higher; and must be in Kinesiology program; and permission of department.

KNES498 Special Topics in Kinesiology (3 Credits)
Topics of special interest in areas not covered by regularly scheduled courses.
Prerequisite: Permission of SPHL-Kinesiology department.
Repeatable to: 99 credits if content differs.