SCHOOL OF HEALTH PROMOTION AND KINESIOLOGY

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Undergraduate Degrees Offered

- B.A.S. in Health Sciences (Business Emphasis) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/health-sciences-baas-emphasis-business)
- B.A.A.S. in Health Sciences (General) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/health-sciences-baas-general)
- B.A.A.S. in Health Sciences (Health Studies Emphasis) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/health-sciences-baas-emphasis-health-studies)
- B.A.S. in Health Studies (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/health-studies-bas)
- B.S. in Health Studies (Community Health) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/health-studies-bs-community-health)
- B.S. in Health Studies (Master’s Preparation) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/health-studies-bs-masters-preparation)
- B.S. in Health Studies (Public Health) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/health-studies-bs-public-health)
- B.S. in Kinesiology (Exercise Science) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/kinesiology-exercise-science-bs)
- B.S. in Kinesiology (Exercise Science, Pre-Occupational Therapy) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/kinesiology-exercise-science-ot-bs)
- B.S. in Kinesiology (Exercise Science, Pre-Physical Therapy) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/kinesiology-exercise-science-pt-bs)
- B.S. in Kinesiology with EC-12 Teaching/Coaching Academy Certification (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/kinesiology-teaching-coaching-academy-certification-bs)
- B.S. in Kinesiology (Sport Management) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/kinesiology-sports-management-bs)

*The B.S. in Health Studies (Master’s Preparation, Pre-Occupational Therapy) has been discontinued. Students interested in pre-occupational therapy should refer to the B.S. in Kinesiology (Exercise Science, Pre-Occupational Therapy) (http://catalog.twu.edu/undergraduate/health-sciences/health-promotion-kinesiology/kinesiology-exercise-science-pt-bs). This unique specialization features courses in both Kinesiology and Health Studies and qualifies students for an Alumni Advantage. For more information, see Occupational Therapy in the Undergraduate and Graduate catalogs.

Health Studies

The Bachelor of Science Degree in Health Studies prepares students to become health education specialists. Health education specialists can work in various settings, including non-profit organizations, public health departments, corporate worksite wellness programs, clinics, and hospitals. The Seven Areas of Responsibility for Health Education Specialists serve as the foundation for required Health Studies courses. A Health Studies graduate will be able to demonstrate knowledge and skills connected with the Seven Areas of Responsibility, including but not limited to: conducting community needs assessments; developing, implementing, and evaluating health education/promotion programs; serving as a health education resource person; and communicating and advocating for health and health education. Graduates are eligible to take the CHES® Exam to become a Certified Health Education Specialist.

Within the Bachelor of Science in Health Studies degree program, students may choose from three areas of study: Community Health, Master’s Preparation, and Public Health. Each area of study is different and allows students to fulfill degree requirements necessary for future educational and professional goals. Graduates are also eligible to take the CHES® Exam to become a Certified Health Education Specialist. Click on the appropriate link to obtain information about a specific area of study.

The Health Studies major also qualifies students for a variety of graduate programs with an emphasis in Health Education, Health Promotion and Wellness, Healthcare Administration, Public Health, and other health-related fields. For information about the Health Studies graduate program, please refer to the Graduate Catalog (http://catalog.twu.edu/graduate).

In addition, students with an Associates of Applied Science (A.A.S.) or an Associates of Applied Arts and Sciences (A.A.A.S.) can pursue the Bachelor of Applied Science (B.A.S.) or the Bachelor of Applied Arts and Sciences (B.A.A.S.) degree. These programs provide students with the knowledge and skills necessary to apply concepts and principles of management and organization, including the functions of planning, organizing, directing, and evaluating. Click on the appropriate link to obtain information about a specific degree.

Kinesiology

The undergraduate Kinesiology degree program includes courses that are integral to the movement sciences. Students study a variety of scientifically based subjects including adapted physical activity, biomechanics, exercise physiology, motor learning, physical education pedagogy, and sport management. Within the Bachelor of Science in Kinesiology degree program, students may choose from five specializations: Exercise Science, Exercise Science (Pre-Occupational Therapy), Exercise Science (Pre-Physical Therapy), Sport Management, and EC-12 Teaching/Coaching Academy Certification. Each area of study is different and allows students to fulfill degree requirements necessary for future educational and professional goals. Click on the appropriate link to obtain information about a specific area of study.

In addition, the Kinesiology major qualifies students for a variety of graduate programs with an emphasis in Adapted Physical Activity, Biomechanics, Exercise Physiology, Exercise and Sports Nutrition, Coaching, Physical Education Pedagogy, and Sport Management. For
information about the Kinesiology graduate program, please refer to the Graduate Catalog (http://catalog.twu.edu/graduate).

**Admissions**

All applicants must meet the general undergraduate admission requirements (http://catalog.twu.edu/undergraduate/admission-information). The following degrees have additional secondary admission criteria:


**Policies**

The following policies apply to all students in the School of Health Promotion and Kinesiology:

1. A minimum grade of C is required in all courses in the Health Studies major and Kinesiology major. If a student earns a grade of D, F, or WF in a Health Studies or Kinesiology course, the student must take the course again. A course in which a student earns a grade of less than C (D, F, or WF) may be repeated only once.

2. A student who earns a grade of less than C (D, F, or WF) twice in the same Health Studies course will be required to leave the Health Studies program.

3. A student who earns a grade of less than C (D, F, or WF) twice in the same Kinesiology course will be required to leave the Kinesiology program.

4. Students receiving a grade of I, D, F or WF in a Health Studies or Kinesiology course may not progress to courses for which that course is a prerequisite.

5. If the overall GPA drops below 2.75, the student must raise it to 2.75 within two semesters. Any student with a GPA below 2.75 for two consecutive semesters will be required to leave the program.

6. Total semester credit hours required: 120.

The following policy applies to Health Studies majors only:

A Health Studies major cannot take HS 3053 and beyond if the student’s GPA is below 2.75.

**Courses**

**Health Studies Courses**

**HS 1363. Introduction to Health Education.** Health education settings, roles, responsibilities, theories, ethics, and professional organizations associated with the field. Review of leading causes of morbidity and mortality in the U.S. as well as Healthy People 2010 and Healthy People 2020. Three lecture hours a week. Credit: Three hours.

**HS 1901. Fitness and Health Laboratory.** (TCCN PHED 1304) Activities and laboratories designed to illustrate and experience the balanced approach to fitness and health. Co-requisite: HS 1902. Three activity laboratory hours a week. Credit: One hour.

**HS 1902. Fitness and Health: Enhancing Personal Wellness.** (TCCN PHED 1304) Introduces basic concepts of fitness, health, and nutrition; develops understandings necessary for making wise decisions and establishing individually appropriate practices that contribute to a healthy lifestyle throughout the life span. Wellness issues that affect women and reflect cultural values are addressed. Co-requisite: HS 1901. Two lecture hours a week. Credit: Two hours.

**HS 2013. Health Communications.** Provides practical experiences in developing strategies to deliver health messages through a variety of communication channels. Examines theoretical foundations and factors that impact health communication. Co-requisites: HS 1363, HS 1901, and HS 1902. Three lecture hours a week. Credit: Three hours.

**HS 2373. Health Aspects of Human Sexuality.** (TCCN PSYC 2306, SOCI 2306) Physical, emotional, social, and psychological dimensions of human sexuality; interpersonal relationships; contemporary attitudes, values, and behaviors; sexuality as a positive health entity. Three lecture hours a week. Credit: Three hours.

**HS 2813. Introduction to Global Health.** Analysis of significant global health issues; determinants of global health status, culture, gender, poverty, politics, economic development, ethical, and human rights concerns; and education. Development of global health promotion and advocacy strategies. Three lecture hours a week. Credit: Three hours.

**HS 3033. Medical Terminology.** A systems approach to the language of medicine, including the analysis and utilization of word roots, combining forms, prefixes, suffixes, and medical terms; emphasis on written and spoken medical vocabulary. Three lecture hours a week. Credit: Three hours.

**HS 3053. Community Health.** Emphasis on the needs assessment process and how to collect, interpret, synthesize, and report community health data. U.S. health data, county health reports, sources of health information, and ecological and sociological factors impacting health. Health education theories will be addressed and the student will practice using the PRECEDE-PROCEED model. Prerequisites or co-requisites: HS 1363, HS 1901, HS 1902, and HS 2013. Three lecture hours a week. Credit: Three hours.

**HS 3073. Health Promotion Program Planning and Design.** Introduction to health program planning and design. Includes interpretation of needs assessment data, goals and objectives writing, assets mapping/capacity building, and strategies development. Theories relative to planning and learning styles are discussed. Concepts related to program implementation and evaluation are introduced. Prerequisites: HS 1363, HS 1901, HS 1902, HS 2013, HS 3053, and a minimum GPA of 2.75. Three lecture hours a week. Credit: Three hours.

**HS 3083. Program Evaluation in Health Promotion.** Methods and models for program evaluation in health promotion and health education; development of data collection instruments; data collection and statistical analysis techniques; interpreting and reporting evaluation results. Prerequisites: HS 1363, HS 1901, HS 1902, HS 2013, HS 3053, HS 3073, and a minimum GPA of 2.75. Three lecture hours a week. Credit: Three hours.

**HS 3133. Perspectives on Women’s Health.** Feminist theory provides framework for exploration of women’s health care issues throughout the life span. Examines roles of women as providers and consumers of health care. Emphasizes the interface of gender, socio-economic and minority status, and medicalization of women’s health. Three lecture hours a week. Credit: Three hours.
HS 3203. Emergency Care, First Aid, and CPR. Theory and practice of emergency care including: adult, child, and infant rescue breathing; conscious and unconscious choking; infant, child, adult, and two person CPR with child and adult AED (Automated External Defibrillation). Includes bloodborne pathogen training and emergency oxygen administration. Preparation for Professional Rescuer certification through the American Red Cross. Three lecture hours a week. Credit: Three hours.

HS 3363. History and Principles of Health Education. Origins of health education; historical influences on principles and theories governing contemporary programs of health education and their significance to the school and the community. Three lecture hours a week. Credit: Three hours.

HS 3373. Health Promotion for Children. Focus on health promotion content for the school age child. Identification of strategies and resources for programs designed to maintain, protect, and promote the health of children. Three lecture hours a week. Credit: Three hours.

HS 3383. Legal and Ethical Issues in Health Informatics. Trends in information technology which impact the right to privacy, the principles underlying privacy protection, and the key elements of federal and state health information privacy laws. Review of major regulatory mechanisms protecting privacy and confidentiality related to public health as well as ethical issues related to the collection and use of public health information. Framework to formulate and analyze ethical issues related to public health informatics. Three lecture hours a week. Credit: Three hours.

HS 3403. Environmental Health and Safety Education. Basic principles of ecology as they apply to the health and safety of human beings in interaction with and within physical and social environments, in relation to the biosphere, and in community and occupational settings; efforts to protect and conserve the environment. Three lecture hours a week. Credit: Three hours.

HS 3413. Epidemiology. Investigation and measurement, control, and prevention of diseases and health conditions, and the risk of these diseases and conditions, in human populations. Prerequisites: HS 3033, BACT 1003, BACT 1001, ZOOL 2033, ZOOL 2031. Three lecture hours a week. Credit: Three hours.


HS 3443. Health Aspects of Aging. Aging as a part of the lifecycle; special health concerns of the elderly; current life extending research and technology; successful aging. Three lecture hours a week. Credit: Three hours.

HS 4123. Internship in Health Education. Clinical experiences in health-related agencies to enable the student to develop competencies generic to the practice of health education. Community Health students must register for four sections of HS 4123 within the same semester for a total of 360 hours on site. Prerequisites: Course work completed, senior classification, internship coordinator approval, and a cumulative HS GPA of 2.75. Nine practicum hours a week. Credit: Three hours.

HS 4353. Grant Writing in Health Education. Capstone course which synthesizes theory and methods of health education, needs assessment, program planning, implementation, and evaluation. Integrates the areas of responsibility for a Certified Health Education Specialist (CHES) into a grant writing project. Prerequisites: HS 1363, HS 1901, HS 1902, HS 2013, HS 3053, HS 3073, and a GPA of 2.75. Co-requisite: HS 3083. Three lecture hours a week. Credit: Three hours.

HS 4363. Consumer Health. Overview of basic materials needed to make informed decisions in regard to personal health care and selection of health services. Developing and utilizing strategies for making everyday health decisions on an informed basis. Three lecture hours a week. Credit: Three hours.

HS 4473. Professionalism and Ethics in Health Care. Principles and issues of professionalism and ethics in health care, including ethical systems, social change, values and norms, cultural diversity; application of ethical considerations to the decision making process in health care. Three lecture hours a week. Credit: three hours.

HS 4483. Psychosocial Aspects of Mental Health. Psychosocial factors which impact health status and health behavior including: family, environment, culture, age, gender, socioeconomic status, education, violence, grief, loss, traumatic stressors, and factors that shape a person's image and identity. Three lecture hours a week. Credit: Three hours.

HS 4553. Stress Management Techniques. Understanding productive and non-productive stress and their implications for health. Learning relaxation techniques and positive reinforcers that lead to wellness. Three lecture hours a week. Credit: Three hours.

HS 4563. Overview of Public Health Surveillance. Examination of the process and methods of designing and evaluating public health information surveillance systems. Public health-related database design with an emphasis on the planning, design, and implementation of databases related to public health surveillance. Three lectures hours a week. Credit: Three hours.

HS 4573. Occupational Risk Assessments. A study of the principles of health and environmental management in the workplace. Topics include: assessment, recognition, evaluation, and control of occupational hazards. The course provides students the opportunity to assess environmental factors or risks that can affect the workplace and to assess methods of prevention of occupational injuries and illnesses. Prerequisite or Co-requisite: HS 3403. Three lecture hours a week. Credit: Three hours.

HS 4583. Health Care in Multicultural Settings. Examines major health problems of underdeveloped, developed, and emerging nations by conducting in-depth analyses of health problems among various populations in multicultural settings, both nationally and internationally. Three lecture hours a week. Credit: Three hours.
HS 4743. Needs Assessment, Planning, and Evaluation for Health Professionals. Required for BAS students only. Program development and evaluation for health professionals working in allied health, corporate health, or health promotion. Highlights needs assessment, theory application, goals and objectives, strategies for program implementation, and methods for program evaluation. Prerequisites: HS 4573, coordinator's approval, and cumulative GPA of 2.75. Three lecture hours a week. Credit: Three hours.

HS 4903. Special Topics. Examination of a topic of current interest relating to health studies. Requires searching library databases for peer-reviewed literature; analysis of the literature; and synthesis of information by way of a class project. Three lecture hours a week. Credit: Three hours.


HS 4913. Independent Study. Independent study in selected topics. Advisor and instructor approval required. Credit: Three hours.

HS 4923. Capstone in Interprofessional Informatics. Culminating organization and/or community-based interdisciplinary/interprofessional project supported through informatics and technology and applied to a specific domain to demonstrate knowledge and skills acquired in the informatics or health informatics program. Prerequisite: Taken after completion of all but the last 24 hours (SCHs) of the program. Credit: Three hours.

HS 4953. Cooperative Education. Credit: Three hours.

HS 4956. Cooperative Education. Credit: Six hours.

Kinesiology Courses

KINS 1311. Physical Activity: Personal Fitness. Designed for the general university student. Instruction offered at all levels of skill; emphasis upon the development of total fitness and recreational skills for leisure use. Personal equipment and clothing for most activity courses must be supplied by the student. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 1441. Physical Activity: Aquatics. Designed for the general university student. Instruction offered at all levels of skill; emphasis upon the development of total fitness and recreational skills for leisure use. Personal equipment and clothing for most activity courses must be supplied by the student. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 1583. Foundations of Assessment in Kinesiology. Introductory techniques for inclusionary assessments of fundamental motor skills, physical activity, physical fitness, and other related skills in kinesiology across the lifespan. Prerequisite: Kinesiology major or permission of instructor. Two lecture and four laboratory hours a week. Credit: Three hours.

KINS 1683. Strength Training and Functional Anatomy. Form and function of the musculoskeletal system and major muscle groups, their actions, and exercises to improve strength, power, and endurance. Basic physiology of exercise and adaptations to exercise training. Planning and critiquing contemporary fitness programs for various populations. Two lecture and three laboratory hours a week. Credit: Three hours.

KINS 1801. Introduction to Kinesiology. Introduces Exercise Science and Kinesiology through the historical evolution of the field: description of areas of study in the major subdisciplines (i.e., Biomechanics. Adapted Physical Activity/Education, Exercise Physiology, etc.); career options within Kinesiology. One lecture hour a week. Credit: One hour.

KINS 1901. Fitness and Health Laboratory. Activities and laboratories designed to illustrate and experience the balanced approach to fitness and health. Three activity/laboratory hours a week. Credit: One hour.

KINS 1902. Fitness and Health: Enhancing Personal Wellness. Introduces basic concepts of fitness, health, and nutrition; develops understandings necessary for making wise decisions and establishing individually appropriate practices that contribute to a healthful lifestyle throughout the lifespan. Wellness issues that affect women and reflect cultural values are addressed. Two lecture hours a week. Credit: Two hours.

KINS 1931. Weight Training. Designed for the general university student. Instruction offered at all levels of skills; emphasis on the development of total physical fitness and recreational skills through participation in weight training. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 2112. Team Sports. Introduction to selected team sports that provide opportunities to learn rules, skills, progressions, strategies, and analysis techniques. One lecture and two laboratory hours a week. Credit: Two hours.

KINS 2122. Individual and Dual Sports. Introduction to selected individual/dual sports that provide opportunities to learn rules, skill breakdown, progressions, strategies, and analysis techniques. One lecture and two laboratory hours a week. Credit: Two hours.

KINS 2132. Outdoor Adventure Activities. Introduction to outdoor adventure activities that provide opportunities for challenge, personal growth, leadership skills, teamwork, and a physically-active lifestyle; promotion of a respect for the environment. One lecture and two laboratory hours a week. Credit: Two hours.

KINS 2433. Sport Communication. Study of communication in sports settings, communication theory, the application of theory to the sports industry, and how organizations communicate with the media and its constituents. Three lecture hours a week. Credit: Three hours.

KINS 2621. Motor and Aquatic APE Instructional Lab. Experiences working with students with disabilities in motor, sport, and aquatic environments. Individualized educational programs and lesson plans based on assessments. Prerequisites: KINS 1583 and KINS 1801. Co-requisite: KINS 2623. Three laboratory hours a week. Credit: One hour.

KINS 2623. Adapted Physical Activity. Characteristics of individuals across the lifespan; physical activity in the least restrictive environment; leisure recreation, sports, and fitness for individuals with disabilities. Prerequisites: KINS 1583 and KINS 1801. Co-requisite: KINS 2621. Three lecture hours a week. Credit: Three hours.

KINS 2722. Methods of Exercise Leadership. Development and implementation of individualized and group exercise leadership skills; demonstration of safe and effective methods of exercise while applying principles of exercise science; writing appropriate exercise recommendations and providing appropriate motivation. Prerequisite: KINS 1683. One lecture and three laboratory hours a week. Credit: Two hours.
KINS 3101. Practicum in Secondary Physical Education. Development of pedagogical strategies and direct application in middle and/or high school physical education contexts. Emphasis on the developing skills needed to effectively instruct and manage secondary physical education classes in the schools. Co-requisite: KINS 3103. Three practicum hours a week. Credit: One hour.

KINS 3103. Secondary Methods in Physical Education. Instruction, curriculum, planning, assessment, and classroom management for secondary physical education programs. Prerequisites: Junior standing; KINS 1583; KINS 3203; and KINS 2112, KINS 2122 or KINS 2132. Co-requisite: KINS 3101. Three lecture hours a week. Credit: Three hours.

KINS 3143. Disability Sport and Modified Games. Rules, equipment, and space required for disability sports; modification and inclusion of disability sport in a general physical education curriculum; skill assessment and participation in disability sport. Two lecture and two laboratory hours a week. Credit: Three hours.


KINS 3203. Elementary Methods in Physical Education. Instruction, curriculum, planning, assessment, and classroom management for elementary physical education programs. Prerequisites: Junior standing; KINS 1583; and KINS 2112, KINS 2122 or KINS 2132. Co-requisite: KINS 3201. Three lecture hours a week. Credit: Three hours.

KINS 3303. Leadership through Experiential Activities. Experiential education model applied to challenge course activities. Processing skills, design, and creation of experiential activities through which participants learn by doing physically challenging and problem solving group activities. Focus on goal setting, open and clear communication, cooperative relationships, and participative leadership. Prerequisite: Junior status or consent of instructor. Three lecture hours a week. Credit: Three hours.

KINS 3313. Wilderness First Responder. Utilization of principles of long-term care, improvised resources, and varying environmental conditions as the framework for learning; prevention and decision-making in the outdoors and other outdoor recreational settings. Prerequisite: KINS 3303. Three lecture and one laboratory hour a week. Credit: Three hours.

KINS 3323. Outdoor Leadership Immersion. Application of course content in Outdoor Adventure Certificate program including group development theory, decision-making skills, experiential education, and group facilitation strategies during a real world ten-day outdoor leadership experience. Prerequisite: KINS 3313. One lecture and five laboratory hours a week. Credit: Three hours.


KINS 3413. Sport Law. Primary sources and key types of law in the U.S. legal system to include tort law, the elements of negligence and liability, and how it applies to sport settings. Explores various laws such as agency, employment, antitrust, and labor law and their application to sports organizations, governing bodies, and athletes. Three lecture hours a week. Credit: Three hours.

KINS 3433. New Media and Marketing in Sport. Latest developments in sport communication technologies, models, and modes of delivery. Use of new media as a vehicle to carry marketing messages to diverse target audiences and understanding issues, trends, and strategies to address various media in the sport industry. Prerequisite: KINS 2433. Three lecture hours a week. Credit: Three hours.

KINS 3453. Sport Development. Study of sport development and the use of sport as a means of improving individuals and social conditions and local and global communities. Examination of social development goals, program theory, program implementation, program assessment, and volunteerism. Three lecture hours a week. Credit: Three hours.

KINS 3473. Sport Management Practicum. Supervised observation and participation in a variety of settings related to sport and recreation management in preparation for internship. Prerequisites: Junior level standing, KINS 3713, KINS 2413, and KINS 2433. Three lecture hours a week. Credit: Three hours.


KINS 3583. Health and Physical Activity for Children and Adolescents. Provides a theoretical and practical base for designing and implementing health and movement activities. Addresses planning, implementation, and evaluation of developmentally appropriate activities and sequencing in health and physical education settings. Prerequisite: Junior status. Three lecture hours a week. Credit: Three hours.


KINS 3593. Biomechanics of Human Body and Motion. Scientific study of human body and motion in mechanical perspective; analysis and understanding of the human mobility system; mechanical laws and principles and their application to human body motion; analysis methods for human body motion. Prerequisites: ZOOL 2013, ZOOL 2011, ZOOL 2023, and ZOOL 2021; or equivalent, with a grade of C or higher. Co-requisite: KINS 3591. Three lecture hours a week. Credit: Three hours.

KINS 3601. Physiology of Exercise Laboratory. Co-requisite: KINS 3603. Three laboratory hours a week. Credit: One hour.

KINS 3603. Physiology of Exercise. Physiological effects of exercise upon the human body; basic physiological concepts and their relationship to the kinesiology program. Prerequisites: ZOOL 2013, ZOOL 2011, ZOOL 2023, ZOOL 2021, with a grade of C or higher. Co-requisite: KINS 3601. Three lecture hours a week. Credit: Three hours.

KINS 3623. Scientific Foundations of Human Movement. Scientific foundations of human movement as described by anatomical, biomechanical, and physiological analysis. Application of physical and physiological concepts to human movement for those seeking a career in occupational therapy and to motor and sports skills for the physical education teacher and sport coach. Prerequisites: ZOOL 2013 and ZOOL 2023. Three lecture hours a week. Credit: Three hours.

KINS 3653. Principles of Coaching. Includes coaching philosophy, communication, motivation, sport physiology, planning, sport nutrition, and management. Designed for coaches at all levels. Prerequisites: Junior standing; KINS 1583; and KINS 2112, KINS 2122 or KINS 2132. Three lecture hours a week. Credit: Three hours.
KINS 3701. Practicum in Senior Adult Fitness. Contemporary issues in senior adult fitness related to community physical activity and wellness programming. A pre-internship practicum to introduce the practical experiences with older adults in a supervised university/community setting. Prerequisites or Co-requisites: KINS 3603 and KINS 3601. Three practicum hours a week. Credit: Three hours.

KINS 3713. Sport and Fitness Management. Management and operations of the sport and fitness enterprise. Fundamental management principles and concepts including personnel management, marketing and communication principles, financial management, legal issues, facility and event operations, socio-cultural issues, industry trends, and career opportunities. Three lecture hours a week. Credit: Three hours.

KINS 3801. Practicum in Coaching. Prerequisite or Co-requisite: Junior Status and KINS 3653. Credit: One hour.

KINS 3803. Practicum in Coaching. Prerequisite or Co-requisite: KINS 3653. Credit: Three hours.

KINS 4413. Governance and Ethics in Sport. Analysis of governance structures and policy development utilized within sport with an emphasis on organizational structure, strategic management, ethics, politics, policy, decision making, and influence of governing bodies. Prerequisites: KINS 3713 and Junior level standing. Three lecture hours a week. Credit: Three hours.

KINS 4433. Finance and Economics in Sport. Financial and economic aspects of the sport industry, the basic concepts of financial management, and application of the financial concepts to the analysis of financial and economic issues within the sport industry. Specific analytical techniques used by financial managers and the current financial and economic status of the various sectors of the sport industry. Prerequisites: KINS 3713 and Junior level standing. Three lecture hours a week. Credit: Three hours.

KINS 4452. Strategic Data Analysis in Sport. Study of sport consumer behavior models, data, and analysis used to improve strategic decision making within sport organizations. Prerequisites: KINS 3713 and Junior level standing. Three lecture hours a week. Credit: Three hours.

KINS 4473. Internship in Sport Management. Practical work experience and supervised mentorship with a sport or recreation organization. Site must be approved by the department and internship coordinator. Prerequisites: Senior level standing and all Sport Management coursework completed. Credit: Three hours.

KINS 4573. Motor Learning and Development. Changes and characteristics of motor behavior from infancy to adulthood. Effects of the individual's personality traits, and generic and environmental factors on the learning of motor skills. Two lecture and two laboratory hours a week. Credit: Three hours.

KINS 4601. Advanced Exercise Physiology Laboratory. Exercise physiology laboratory experiences pertaining to the administration of graded exercise tests and interpretation of results; exercise prescription; electrocardiographic interpretation; measurement of lactic acid, hematocrit, and hemoglobin at rest and during exercise. Co-requisite: KINS 4603. Three laboratory hours a week. Credit: One hour.

KINS 4603. Advanced Exercise Physiology. Study of lifestyle-related diseases and risk factors. Emphasis will be on the cardiovascular system. Basic ECG interpretation. Prerequisite: KINS 3603 with a grade of C or higher. Co-requisite: KINS 4601. Three lecture hours a week. Credit: Three hours.

KINS 4701. Exercise Testing and Prescription for General and Special Populations Laboratory. To enhance careers in cardiac rehabilitation or corporate fitness. Content centers around diverse populations, both normal, healthy, and special populations with a variety of abilities and disabilities. Laboratory techniques of exercise testing with expectation that students will perform exercise testing procedures. Skills and abilities pertaining to ACSM Certified Exercise Physiologist. Prerequisites: KINS 3603 and KINS 3601. Co-requisite: KINS 4703. Three laboratory hours a week. Credit: One hour.

KINS 4703. Exercise Testing and Prescription. Methodology of exercise testing and exercise prescription with a focus on diverse populations both healthy and special populations with a variety of abilities and disabilities. Designed for Kinesiology majors, primarily Exercise Science Track. Must be completed prior to internship. Prerequisite: KINS 3603 and KINS 3601 with a grade of C or higher. Co-requisite: KINS 4701. Three lecture hours a week. Credit: Three hours.

KINS 4801. Disability Sport Internship. Designed to provide a student with enhanced information regarding aquatics and sport for individuals with disabilities. Three laboratory hours a week. Prerequisites: KINS 2143, KINS 2623, and KINS 2621. Credit: One hour.

KINS 4811. Inclusion in Physical Education Internship. Designed to provide a student with enhanced knowledge and experiences related to inclusionary physical education programming. Prerequisite: KINS 2621 and KINS 2623. Three practicum hours a week. Credit: One hour.

KINS 4821. Motor and Physical Assessment of Individuals with Special Needs Internship. Designed to provide a student with enhanced information and experiences regarding the assessment process of individuals with disabilities. Prerequisites: KINS 2623 and KINS 2621. Three practicum hours a week. Credit: One hour.

KINS 4822. Assessment in Adapted Physical Education. Establishing appropriate service for students with disabilities in physical education through assessment. Practice in administration of motor and/or fitness assessments. Requires developing and conducting a detailed IEP, assessment report, and programming recommendations. Prerequisites: KINS 2623 and KINS 2621. Co-requisite: KINS 4821. Two practicum hours a week. Credit: Two hours.

KINS 4823. Exercise Assessment and Program Development for Special Populations. Fitness assessment, program development and implementation for individuals with disabilities and/or related conditions in a clinical setting such as community health club or wellness center. Prerequisites: KINS 2623 and KINS 2621, or KINS 2622 and KINS 2621; and KINS 3603 and KINS 3601, or KINS 3602 and KINS 3601; with a grade of C or higher in each. Two lecture and two laboratory hours a week. Credit: Three hours.

KINS 4903. Special Topics. Three lecture hours a week. Credit: Three hours.

KINS 4911. Independent Study. Study of a specific topic in kinesiology leading to the solution of a problem of interest to the profession or the student. Prerequisite: Permission of instructor. May be repeated for additional credit. Credit: One hour.

KINS 4913. Independent Study. Study of a specific topic in Kinesiology leading to the solution of a problem of interest to the profession or the student. Prerequisite: Permission of the instructor. May be repeated for additional credit. Credit: Three hours.
KINS 4933. Internship in Cardiac Rehabilitation. Internship in hospital-based Cardiac Rehabilitation and related activities. Minimum of 175 contact hours required; must have 350 contact hours when combined with KINS 493 Internship in Corporate Fitness. Kinesiology majors specializing in Exercise Science only. Prerequisites: KINS 3701, KINS 4603, and KINS 4601. Nine practicum hours a week. Credit: Three hours.

KINS 4943. Internship in Corporate Fitness. Internship in Corporate Fitness and related activities. Minimum of 175 contact hours required; must have 350 contact hours when combined with KINS 4933 Internship in Cardiac Rehabilitation. Kinesiology majors specializing in Exercise Science only. Prerequisites: KINS 3701, KINS 4701, and KINS 4703 with a grade of C or higher. Nine practicum hours a week. Credit: Three hours.

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