Overview
Kinesiology is the study of physical activity across a range of tasks, including exercise, daily living, play, sport and work. Physical activity is vital to preventing chronic diseases and premature death, and it enhances one’s quality of life.

Kinesiology promotes an understanding of the necessity and application of physical activities for optimal health. Course work integrates biological science and social and behavioral science approaches using biomechanical, physiological, psychological and sociological perspectives.

Kansas State University’s international reputation in exercise physiology and exercise behavioral science provides students the opportunity to pursue exercise-related careers after graduation or seek admission to advanced education through health professional and graduate school.

More than 50 percent of K-State kinesiology graduates each year are admitted to physical therapy, physician assistant, public health, medicine, chiropractor and other health-related advanced graduate degree programs. In addition, several outstanding students are admitted during their junior year at K-State for a combined Bachelor of Science/Master of Science degree in kinesiology with an emphasis in exercise physiology or a combined Bachelor of Science/Master of Public Health degree. The combined degree programs offer an accelerated route to an advanced degree.

Professional options
Graduates with a degree in kinesiology have been very successful in gaining admission to health professional and graduate school or pursuing physical activity-related careers after graduation. Many students choose health professional school options in physical therapy, physician assistant, exercise physiology and public health physical activity.

Some students have been admitted to medical school, dental school and other health-related programs.

Careers
- Chiropractor
- Dentist
- Exercise physiologist
- Exercise specialist
- Fitness specialist
- Health educator
- Medical assistant
- Medical doctor
- Medical laboratory technician
- Nurse
- Occupational therapy
- Personal trainer
- Physician assistant
- Physical therapist
- Public health physical activity specialist
- Radiation technician
- Rehabilitation specialist

Employers
- Athletic clubs
- Community recreation centers
- Health-related businesses
- Hospitals
- Hotels
- Medical offices
- Private sports and recreation clubs
- Resorts
- Schools
- Universities
- Wellness centers

Job experience
An internship is an excellent opportunity to showcase your academic knowledge and practical skills in a real-world setting before graduation.

Academics
Degree option
Students earn a Bachelor of Science degree in kinesiology or a B.S. dual degree in nutrition and kinesiology.

Exercise physiology is the response of the human body to physical activity. Emphasis will be placed on understanding the structure-function relationships of the respiratory, cardiovascular and muscular systems, and how their function is integrated to support the dynamics of muscular contraction.

Exercise behavioral science focuses on understanding behavioral and social processes that influence physical activity and the use of these processes to explain or modify physical activity and public health outcomes. Behavioral processes refer to overt actions such as cognition, emotion, temperament and motivation whereas social processes include socio-economic status, socio-demographic characteristics and the various levels of social conditions ranging from small groups to complex cultural systems and societal influences. Exercise behavioral science is studied from multiple levels including individual, interpersonal, settings, policy and socio-cultural.

Pre-health professional curricula
Students seeking admission to physical therapy, medical and other health professional schools may major in kinesiology (or another discipline) provided the required preprofessional course work is completed.

Students should seek a pre-health professions advisor from the dean’s office of the College of Arts & Sciences and a kinesiology advisor for proper planning to meet academic and professional goals.

Dual degree in nutrition and kinesiology
This degree provides preparation for professional careers in wellness and careers that interface the roles of nutrition and physical performance. Principles of nutrition, food science, community nutrition, concepts of personal health and nutrition needs throughout the life cycle are included in this degree. Consult with advisors in the departments of Human Nutrition and Kinesiology for more information.

Points of pride
Kansas State University's international reputation in exercise physiology and exercise behavioral science provides students the opportunity to pursue exercise-related careers or continue their education. More than 50 percent of our graduates are admitted to health-related advanced graduate degree programs each year.

k-state.edu/admissions/academics
Minor in kinesiology
A kinesiology minor requiring 16 credit hours allows students who are not kinesiology majors to gain a general understanding of the necessity of movement for physical and psychological health.

Preparation
Students should complete a rigorous high school curriculum that prepares them to complete courses in the biological sciences and the social sciences.

Activities
Students are encouraged to get involved with the Kinesiology Student Association, or KSA, community fitness programs and research laboratories.

Clubs
The Kinesiology Student Association is the undergraduate student organization within the Department of Kinesiology at K-State. The objectives of the organization are to:
- Advance the student interest and appreciation of the field of kinesiology.
- Foster a spirit of loyalty, friendship and cooperation among students through experiences and responsibilities for a career in the area of kinesiology.

The association sponsors guest speakers monthly who work in kinesiology-related fields and also organizes social events, such as intramural sport teams.

Service opportunities
The Department of Kinesiology offers a community fitness program and structured exercise classes such as K-State CrossFit. Students can earn practicum credit working in these programs.

Research
Students are also encouraged to get involved in faculty research programs. Laboratories include:
- Cardiorespiratory Exercise Lab
- Human Exercise Physiology Lab
- Functional Intensity Training Lab
- Social Analysis of Physical Activity Lab
- Digital Physical Activity Lab
- Physical Activity Intervention Research Lab
- Youth Physical Activity and Nutrition Motivation Lab

Kinesiology faculty members are funded for research projects from agencies such as NASA, National Institutes of Health, USDA, American Heart Association and the Robert Wood Johnson Foundation.

For more information about research opportunities, visit the laboratory website accessible from the kinesiology website at k-state.edu/kines.

Suggested course work
Kinesiology majors must take a minimum of 36 kinesiology credit hours including 18 credit hours each from the lower-level core and from the upper-level core. It is a requirement to take one of the physiology course options, one of the exercise behavioral science course options and 12 credit hours of 300 level or above kinesiology courses. At least 3 of the 12 elective hours must be a 600 level or higher, plus 3 credit hours in human nutrition.

A minimum grade of “C” and GPA of 2.2 are required for all kinesiology courses meeting degree requirements.

Lower-level core (18 credit hours)
- KIN 220 Biobehavioral Bases of Physical Activity
- KIN 310 Measurement and Research Techniques
- KIN 335 Physiology of Exercise
- KIN 336 Physiology of Exercise Lab
- KIN 345 Public Health Physical Activity

Upper-level core (18 credit hours)
- Exercise physiology (3 credit hours)
  - Select one course from the following (3 hours)
  - KIN 601 Cardiorespiratory Exercise Physiology
  - KIN 603 Cardiovascular Exercise Physiology
  - KIN 607 Muscle Exercise Physiology
- Exercise behavioral science (3 credit hours)
  - KIN 600 Interpersonal Aspects of Physical Activity
  - KIN 602 Social Structural Determinants Physical Activity
  - KIN 612 Policy, Built Environment and Physical Activity
  - KIN 614 Physical Activity Behavior Settings: Youth Sport to Senior Centers
  - KIN 655 Individual Physical Activity Promotion

Kinesiology elective courses
300 level or higher (12 credit hours)
At least one elective must be 600 level or higher.

Basic science prerequisites
Prerequisites for kinesiology courses are identified in the course descriptions. Below is an overview of basic science prerequisites.
- PSYCH 110 General Psychology
- SOCIO 211 Introduction to Sociology
- BIOL 198 Principles of Biology
- BIOL 340 Human Body
- KIN 360 Anatomy and Physiology

Kinesiology students must also complete a course in biochemistry, chemistry or physics. Additional courses in biochemistry and chemistry are strongly encouraged for some areas of study.

For more information about kinesiology, contact:
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