APPLIED PHYSIOLOGY AND KINESIOLOGY

Program Information

Graduate study in Applied Physiology and Kinesiology (APK) is focused on research in concentration areas including: biomechanics; motor control and learning; exercise physiology; and performance psychology. Graduate students are exposed to and directly involved in research covering the full multidisciplinary spectrum of human potential from young to old, fit to unfit, healthy to diseased, able-bodied to disabled, and from the casual recreational participant to the high-level athlete. In addition to human performance issues, APK faculty and students study the immediate and lasting effects of exercise and its use in disease prevention and rehabilitation.

For more information, please see our website: http://apk.hhp.ufl.edu/index.php/current-students/prospective-students (http://apk.hhp.ufl.edu/index.php/current-students/prospective-students/).

Degrees Offered

Degrees Offered with a Major in Applied Physiology and Kinesiology

- Doctor of Philosophy
  - concentration in Biobehavioral Science
    - *optional second concentration in Clinical and Translational Science*
  - concentration in Exercise Physiology
    - *optional second concentration in Clinical and Translational Science*
- Master of Science
  - without a concentration
  - concentration in Biobehavioral Science
  - concentration in Clinical Exercise Physiology
  - concentration in Exercise Physiology
  - concentration in Human Performance

Requirements for these degrees are given in the Graduate Degrees (http://gradcatalog.ufl.edu/graduate/degrees/) section of this catalog.

Courses

Applied Physiology and Kinesiology Departmental Courses

Code	Title	Credits
APK 5102	Kinetic Anatomy	3
APK 5121	Anatomy and Physiology for Sport and Exercise Science	3
APK 5127	Assessment in Exercise Science	3
APK 5133	Human Pathophysiology for the Exercise Sciences	3
APK 5150C	Clinical Anatomy for the Exercise Sciences	3
APK 5166	Sports Supplements	3
APK 5171	Clinical Exercise Prescription	3
APK 5177	Strength and Conditioning for Beginning Practitioners	3
APK 5404	Sport Psychology	3
APK 5620	Genetics of Human Performance	3
APK 5702	Applied Sport Science	3
APK 6116C	Physiological Bases of Exercise and Sport Sciences	3
APK 6118	Neuromuscular Adaptation to Exercise	3
APK 6124	Extreme Environment Physiology	3
APK 6145	Movement Disorders	3
APK 6167	Nutrition Aspects of Human Performance	3
APK 6170	Advanced Exercise Physiology	3
APK 6176	Strength and Conditioning for Advanced Practitioners	3
APK 6195	Cell Physiology & Biophysics	0
APK 6205C	Nature and Bases of Motor Performance	3
APK 6206	Planning Motor Actions	3
APK 6225	Biomechanical Instrumentation	3
APK 6226C	Biomechanics of Human Motion	3
APK 6320C	Corrective Exercise	3
APK 6406	Exercise Psychology	3
APK 6408	Performance Enhancement	3
APK 6417	Attention & Emotion in Tactical Athlete Populations	3
APK 6611	Tactical Strength & Conditioning	3
APK 6704	MATLAB for Biomedical Sciences	3
APK 6715	Grant Writing in Health & Human Performance	3
APK 6900	Directed Independent Study	1-5
APK 6940	Advanced Practicum in Exercise and Sport Science	3-6
APK 7107	Cardiovascular Exercise Physiology	3
APK 7108	Environmental Stress Exercise Physiology	3
APK 7117	Exercise Metabolism	3
ATR 6124	Clinical Anatomy for the Exercise Sciences	3
ATR 6215	Evidence-Based Orthopedic Exam I: Upper-Extremity	3
ATR 6216	Evidence-Based Orthopedic Exam II: Lower-Extremity	3
ATR 6304	Rehabilitation and Modalities of Athletic Injuries	3
ATR 6624	Athletic Training Research and Technology I	3
ATR 6625	Athletic Training Research and Technology II	3
ATR 6934	Seminar in Athletic Training	3
HLP 6515	Evaluation Procedures in Health and Human Performance	3
HLP 6535	Research Methods in Health and Human Performance	3
HLP 6911	Research Seminar	1
HLP 6935	Variable International Topics	1-6
HLP 7939	HHP PhD Professional Development Seminar	3
HLP 7979	Advanced Research in Health and Human Performance	1-12
HLP 7980	Research for Doctoral Dissertation	1-15
PET 5064	Athlete Sexual Health and Wellness	3
PET 5936	Special Topics/Seminars	1-3
PET 6910	Supervised Research	1-5
PET 6947	Graduate Internship in Exercise and Sport Sciences	3-9
PET 6971	Research for Master's Thesis	1-15

Student Learning Outcomes

Applied Physiology & Kinesiology (MS)

SLO 1 Subject Matter

Discuss, explain, and defend subject matter relevant to the discipline – exercise physiology, biobehaviorial science, clinical exercise physiology, human performance, athletic training

SLO 2 Discipline specific skills
Discuss, explain, and defend in the discipline specific skills - exercise physiology, biobehaviorial science, clinical exercise physiology, human performance, athletic training

SLO 3 Professional Behavior
Display ethical behavior, cultural sensitivity, team work, professional conduct and professional communication