# Health and Exercise Science (KINESIO-PH, HEN)

*Specialization leading to Doctor of Philosophy in Kinesiology*

## Core Requirements (9 hours)
- KINESIO 6891: Kinesiology Graduate Core Course I (3)
- KINESIO 6892: Kinesiology Graduate Core Course II (3)

*Select one of the following two courses to complete the Kinesiology Core:*
- KNSISM 6807: Sport Law (3)
- KNPE 7863: Teaching Health and Fitness Courses at the College Level (3)

## Research Core (choose four, minimum 12 hours)
*Consult with advisor and committee to select four courses from the list below or other research courses offered at the University*

### Quantitative
- ESQREM 6641: Introduction to Educational Statistics (4)
- ESQREM 6661: Intro to Educational Measurement (3)
- ESQREM 7627: Sampling Designs and Survey Research Methods (3)
- ESQREM 7631: Applied Evaluation Design (3)
- ESQREM 7635: Advanced Research Methods (3)
- ESQREM 7643: Categorical Data Analysis (3)
- ESQREM 7648: Univariate Experimental Designs (3)
- ESQREM 7651: Regression Analysis (3)
- ESQREM 7661: Instrument Construction (3)
- ESQREM 8648: Multivariate Experimental Designs (4)
- ESQREM 8657: Factor and Cluster Analyses (3)
- ESQREM 8658: Applied Multilevel Data Analysis (3)
- ESQREM 8659: Structural Equation Modeling (3)
- ESQREM 8674: Scaling and Item Response Theory (3)

### Qualitative
- ESQUAL 8210: Qualitative Research: The Analysis of Interaction in Educational Settings (3)
- ESQUAL 8211: Analysis of Classroom Discourse (3)
- ESQUAL 8280: Qualitative Research in Education: Paradigms, Theories, and Exemplars (3)
- ESQUAL 8290: Qualitative Research in Education: Practicum in Methods and Analysis (3)

### Single Subject
- ESSPED 8861: Behavioral Research Methods in Applied Settings (3)
- ESSPED 8871: Behaviorism: Schedules and Translational Research (3)
- ESSPED 8874: Behavioral Research in Education (3)

Minimum hours post-MA/MS: 54-55

For More Information:
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Research Core options continued

Sociology 6608  Qualitative Methods in Sociology (3)
AAE 8860  Research Design (2)
AAE 8870  Analysis and Interpretation of Data (2)
AAE 8880  Instrumentation and Procedures for Data Collection (2)
AAE 8890  Applied Regression Analysis (2)
AAE 8895  Applied Data Reduction Techniques (2)
HISTORY 7900  Colloquium in the Philosophy of History, Historiography, & the Historian’s Skills I (3)
HISTORY 7901  Colloquium in the Philosophy of History, Historiography, & the Historian’s Skills II (3)

Specialization Requirements (9 hours)

KNHES 5661.01  Beginning Labs in Exercise Physiology (1) (unless taken previously)
KNHES 5661.02  Intermediate Labs in Exercise Physiology (1) (unless taken previously)
KNHES 5685  Adult Exercise Programming: Implementation (3)
KNHES 7896  Colloquium: Health and Exercise Science (4)

Concentration Specific Courses (12 or 13 hours minimum)
Select one of the following concentrations.

Exercise Science Concentration (13 hours)

Required Course (4 hours)

KNHES 7714  Advanced Physiology of Exercise (4)

Supporting Courses (choose three, 9 hours)

KNHES 8867  Biochemical Methods for Assessment of Human Performance (3)
HUMMNTR 8802  Advanced Micronutrient Metabolism (3)
KNHES 8803  Seminar in Exercise Metabolism (3)
KNHES 8804  Skeletal Muscle Structure, Function, and Plasticity (3)

Physical Activity Behavior Concentration (12 hours)

Required Course (12 hours)

KNHES 7713  Foundations of Physical Activity Behavior (3)
KNHES 7720  Measurement in Physical Activity Behavior (3)
KNHES 7726  Changing Physical Activity Behavior (3)
KNHES 8801  Seminar in Physical Activity Behavior (3)

Flexibility Requirement (6 hours)

This coursework may be from inside or outside of the program, but should extend the breadth of disciplinary knowledge. Courses are selected in consultation with faculty advisor and committee. Examples of areas of study for Health and Exercise Science include statistics/research, public health, psychology, physiology/ cell biology, or nutrition.

Dissertation Requirement (6 hours)

Consult with faculty advisor

KNHES 8999  Dissertation/Thesis Research: Health and Exercise Science (minimum 6)

Note: Students exact curriculum may vary depending upon program of study determined by student and advisor, and approved by the Graduate Studies Committee.