

# HEALTH & KINESIOLOGY (HEKI)

## Health & Kinesiology Graduate Courses

### HEKI 8000 SPECIAL STUDIES (1-3 credits)

A series of intensive courses - scheduled as regular seminars or workshops according to purpose.

**Prerequisite(s):** Permission of department.

### HEKI 8030 RESEARCH IN HEALTH & KINESIOLOGY (3 credits)

The course introduces students to scientific writing, quantitative research design, and statistical methods. Considerable emphasis is placed on evaluation of research in scholarly publications. A research proposal in the form of a grant proposal is written as one of the course requirements. Students will develop the skills necessary to analyze study designs in existing literature and create a research proposal. (Cross-listed with BMKI 9001).

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

### HEKI 8050 ANATOMY FOR HEALTH SCIENCE EDUCATORS (3 credits)

This course is intended for current or future teachers interested in the Health Science Education Endorsement. This course will primarily teach the structure and function of the body's systems, focusing on the musculoskeletal system. The basic structure and function of the cardiovascular, respiratory, nervous, digestive, endocrine, and lymphatic systems will be introduced. In addition, students will learn about common and innovative pedagogical approaches to teaching anatomy to P-12 students. This will include leveraging innovative technology such as 3d-printed models, smartphone applications, dissection tables, and virtual reality, among others.

### HEKI 8100 RESEARCH PROJECT (1-3 credits)

Individual or group study and analysis of specific problems in health, physical education or recreation.

**Prerequisite(s):** Permission of instructor.

### HEKI 8106 ADVANCED MUSCULOSKELETAL ANATOMY (3 credits)

This course is designed for students interested in healthcare careers, specifically in the rehabilitation sciences, wanting to improve their knowledge of the musculoskeletal system. Emphasis will be placed on palpations, range of motion assessment, and strength testing of various muscles and joints throughout the body. This course will consist of largely hands-on activities working in small groups. (Cross-listed with HEKI 4100).

**Prerequisite(s):** Prerequisites - BMCH 2400 or BIOL 2740, or instructor permission

### HEKI 8220 PROBLEMS & ISSUES IN HPER (3 credits)

An examination of current problems and issues in HPER that relate to the general aims and purposes of HPER.

### HEKI 8300 ANALYSIS OF RESEARCH AND LITERATURE IN HUMAN MOVEMENT (3 credits)

Survey of research and literature in Human Movement for the purpose of orienting the candidate to possible areas of research and developing an understanding of and appreciation for writings in the field. The course may be offered focusing on only one specific area in HPER.

**Prerequisite(s):** HPER 8030 or HEKI 8030

### HEKI 8446 HEALTH SCIENCE EDUCATION (3 credits)

This course is designed to prepare candidates for the field of Health Science Education. This course aims to provide best-practices education related to implementing, conducting, and teaching a health science curriculum in P-12 schools. (Cross-listed with HEKI 4440).

### HEKI 8500 QUALITATIVE RESEARCH METHODS (3 credits)

An examination of qualitative research methods. Emphasis on the broad application of qualitative research in public health, education, and social sciences. Course topics include research design, data collection, data analysis, and reporting.

**Prerequisite(s):** Not open to non-degree graduate students.

### HEKI 8850 EXERCISE FOR SPECIAL POPULATIONS (3 credits)

The course will examine the physiological and medical limitations imposed on people with various common chronic diseases/conditions including arthritis, osteoporosis, exercise-induced asthma, obesity, diabetes, hypertension and pregnancy. Special groups such as children and elders will be discussed. Content will emphasize the etiology and guidelines for exercise testing, prescription, and supervision. (Cross-listed with BMKI 9851).

**Prerequisite(s):** PE 4940/KINS 4940 or PE 8946/KINS 8946

### HEKI 8910 INTERNSHIP IN HEALTH AND KINESIOLOGY (3 credits)

This course is an off-campus, supervised, educational work experience of at least 150 clock hours at an approved worksite offering programs and experiences in fitness development or health promotion.

**Prerequisite(s):** 2.5 GPA and permission of Academic Advisor.

### HEKI 8990 THESIS (1-6 credits)

The thesis experience is designed to help develop the candidate's ability to execute accepted procedures associated with the research process appropriate to the Master's degree.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.