Department of Kinesiology and Applied Physiology

Degree Type:\* 

Exercise Science - Exercise Physiology Concentration (MS)

Provide a brief summary of the proposed program changes and describe the rationale for the change(s):

The main revision is to add a non-thesis option to the MS in Exercise Science Program.  The rationale for the modification is the changing profile of the enrolled students in the program.  Historically, the M.S. in Exercise Science students transitioned to academic doctoral programs. However, recently many of the students in the M.S. in Exercise Science program transition to clinical doctoral programs (e.g., Physical Therapy, Physician Assistant, and Medical School) which do not require a thesis for admission.  Therefore, the non-thesis option provides additional flexibility for program faculty in developing a graduate experience consistent with the student’s professional goals.  In the process of this revision, we are also updating details in the program policy statement to match the current university requirements for admission (e.g. test scores).

Concentration: Exercise Physiology

Exercise Physiology is a science that studies the effect of physical activity on the systems of the human body. Opportunities are available in scientific research, physiological assessment, cardiac rehabilitation, and exercise prescription. Students in the MS program in exercise physiology are required to conduct research and complete a thesis thesis or faculty approved research project.

Credits within Exercise Science: 15-18 credits

Credits in Cognate Areas: 6-9 credits

Research or Thesis: 3 - 6 credits

Total number of required credits: 30 credits

A. Required Credits Within Exercise Science

KAAP 601 Research Methods (3cr.)

KAAP 602 Data Analysis and Interpretation in Health Sciences (3cr.)

KAAP 655 Advanced Physiology of Exercise (3cr.)

KAAP 804 - Clinical Measures in Exercise Physiology

At least one of the following courses

KAAP 675 Clinical Exercise Physiology (4cr.)

KAAP 802 Human Cardiovascular Control (3cr.)

Total from Area A - 15-18 credits

B. A minimum of 2 courses from the following:

KAAP 665 12 Lead ECG Interpretation (3cr.)

KAAP 650 Life Span Motor Development (3cr.)

KAAP 651 Neurophysiological Basis of Human Movement (3cr.)

KAAP 675 Clinical Exercise Physiology (4cr.)

KAAP 666 Special Problem (1 to 12cr.)

KAAP 607 Motor Learning and Control (3cr.)

HDFS 605 Impact of Aging on the Family (3cr.)

BISC 675 Cardiovascular Physiology (3cr.)

KAAP 615 Advanced Mammalian Physiology (4cr.)

KAAP 616 Advanced Mammalian Physiology II (4cr.)

STAT 615 Design and Analysis of Experiments (3cr.)

STAT 617 Multivariate Methods (3cr.)

Total from Area B - 6-9 credits

C. A Minimum of 3 Credits from the following list:

KAAP 869 Master's Thesis (1 to 6cr.)

KAAP 868 Research (1 to 12cr.)

Total from Area C: 3- 6 credits

Students completing a Thesis will register for 6 credits of KAAP 869.  Students not completing a Thesis will register for 3 - 6 credits of KAAP 868.

BISC - 675 - Cardiovascular Physiology (3cr.)

HDFS - 605 - Impact of Aging on the Family (3cr.)

KAAP - 601 - Research Methods (3cr.)

KAAP - 602 - Data Analysis and Interpretation in Health Sciences (3cr.)

KAAP - 607 - Motor Learning and Control (3cr.)

KAAP - 615 - Advanced Mammalian Physiology (4cr.)

KAAP - 616 - Advanced Mammalian Physiology II (4cr.)

KAAP - 650 - Life Span Motor Development (3cr.)

KAAP - 651 - Neurophysiological Basis of Human Movement (3cr.)

KAAP - 655 - Advanced Physiology of Exercise (3cr.)

KAAP - 665 - 12 Lead ECG Interpretation (3cr.)

KAAP - 666 - Special Problem (1 to 12cr.)

KAAP - 675 - Clinical Exercise Physiology (4cr.)

KAAP - 802 - Human Cardiovascular Control (3cr.)

KAAP - 868 - Research (1 to 12cr.)

KAAP - 869 - Master's Thesis (1 to 6cr.)

STAT - 615 - Design and Analysis of Experiments (3cr.)

STAT - 617 - Multivariate Methods (3cr.)