Department of Kinesiology and Applied Physiology

Degree Type:\* 

Exercise Science - Sports Medicine 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).

List new courses required for the revised curriculum. How do they support the overall program objectives of the major/ minor/ concentrations)?

None

Concentration: Sports Medicine

Credit Requirements:

Credits within Exercise Science: 18 credits

Credits in Cognate Areas: 6-9 credits

Research or Thesis: 3-6 credits

Total number of required credits: 30 credits

A. Courses Required Within Exercise Science

KAAP 601 Research Methods (3cr.)

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

KAAP 604 Sensorimotor Characteristics of Injury (3cr.)

KAAP 605 Pathoetiology of Musculoskeletal Injuries (3cr.)

KAAP 606 Evidence-Based Sports Medicine (3cr.)

KAAP 609 Concussion Pathology & Management (3cr.)

Total Credits from Area A - 18 credits

B. A minimum of 2 courses from the following:

KAAP 607 Motor Learning and Control (3cr.)

KAAP 650 Life Span Motor Development (3cr.)

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

KAAP 808 Seminar in Motor Behavior (3cr.)

KAAP 617 Introduction to Laboratory Instruments (3cr.)

KAAP 627 Biomechanical Methods (3cr.)

KAAP 687 Seminar in Biomechanics (3cr.)

KAAP 616 Advanced Mammalian Physiology II (4cr.)

KAAP 655 Advanced Physiology of Exercise (3cr.)

KAAP 665 12 Lead ECG Interpretation (3cr.)

KAAP 675 Clinical Exercise Physiology (4cr.)

KAAP 802 Human Cardiovascular Control (3cr.)

KAAP 840 Advanced Human Anatomy (3cr.)

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

STAT 617 Multivariate Methods (3cr.)

EDUC 862 Design and Analysis of Experiments (3cr.)

KAAP 666 Special Problem (1 to 12cr.)

Total Credits 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 Credits 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.

EDUC - 862 - Design and Analysis of Experiments (3cr.)

KAAP - 601 - Research Methods (3cr.)

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

KAAP - 604 - Sensorimotor Characteristics of Injury (3cr.)

KAAP - 605 - Pathoetiology of Musculoskeletal Injuries (3cr.)

KAAP - 606 - Evidence-Based Sports Medicine (3cr.)

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

KAAP - 609 - Concussion Pathology & Management (3cr.)

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

KAAP - 617 - Introduction to Laboratory Instruments (3cr.)

KAAP - 627 - Biomechanical Methods (3cr.)

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 - 687 - Seminar in Biomechanics (3cr.)

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

KAAP - 808 - Seminar in Motor Behavior (3cr.)

KAAP - 840 - Advanced Human Anatomy (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.)

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