3-16-2021 JUG

Master of Science (M.S.) in Kinesiology

General Information

The *Exercise Physiology* concentration of the M.S. degree in Kinesiology includes three distinct tracks that allow students to direct their learning experience towards their career goal. The Clinical track is designed for students interested in working in allied health and/or wellness professions. The Human Performance track is designed to prepare students for careers specializing in maximizing health and/or physical performance. The Integrative Physiology track is designed for students interested in pursuing a Ph.D. in exercise physiology or other exercise science discipline. These tracks are typically two-year programs that require a minimum of 36 credit hours to complete the degree. Leveling courses may be required for students not possessing a Bachelor's degree in exercise science.

Exercise Physiology Core (12 hrs)

*KIN 5315 Research Methods in Exercise and Sport Sciences
KIN 5335 Cardiopulmonary Exercise Physiology
KIN 5336 Skeletal Muscle Physiology
KIN 5357 Applied Neuromuscular Performance

Clinical Track (18 hrs)

KIN 5312 or 5313 (Psychology)
KIN 5330 Active Female
KIN 5332 Applied Physiology
KIN 5334 Clinical Exercise Testing
KIN 5337 Electrocardiography
KIN 5304 Clinical Internship (3 hrs)

Human Performance Track (15 hrs)

KIN 5317 Seminar
KIN 5318 Biomechanical Assessment
KIN 5353 Assessment Muscular Perform.
KIN 5355 Program Design
KIN 5358 Sport Nutrition and Ergogenic Aids

Integrative Physiology (15hr)

KIN 5332 Applied Physiology
KIN 6000 Thesis (6 hrs)
KIN 7000 Research (6 hrs)

Electives (***must be approved by advisor***)

**KIN 5304 Clinical Internship (3 hours)
KIN 5302 Motor Control
KIN 5305 Motor Learning
KIN 5307 Motor Development
KIN 5312 Behavioral and Psychological Aspects of Exercise
KIN 5313 Applied Psychology of Sport
KIN 5316 Research Methods II
KIN 5317 Seminar: Topics will vary according to semester
KIN 5318 Biomechanical Assessment of Human Performance
KIN 5332 Applied Physiology of Exercise
KIN 5353 Research and Assessment of Muscular Performance
KIN 5355 Program Design for Strength and Conditioning
KIN 5358 Sports Nutrition and Ergogenic Aids
KIN 5301 Independent Study
KIN 6000 Thesis
KIN 7000 Research
NS 6320 Nutritional Epidemiology
NS 6325 Nutrition, Exercise, & Sport
NS 6335 Motivating Health Behavior
ANSC 5316 Muscle Chemistry
CHEM 5334 Principles of Biochemistry
CHEM 5339 Biochemistry I

* Must take in first semester in graduate program.
**This elective is only available for clinical track students. Clinical students must complete 6 hours of internship if you are electing to take the ACSM certification exam

3-16-2021 JUG

Course Rotation

Courses offered every Fall
KIN 5304 – Clinical Internship
KIN 5301 – Independent Study
KIN 5312 – Behavioral and Psychological Aspects of Exercise
KIN 5315 – Research Methods I (for exercise science students)
KIN 5336 – Skeletal Muscle Physiology
KIN 5335 – Cardiopulmonary Exercise Physiology
KIN 5357 – Applied Neuromuscular Performance
KIN 6000 – Thesis
KIN 7000 – Research

Courses offered in the Fall, but during **odd years only**
KIN 5302 – Motor Control

Courses offered in the Fall, but during **even years only**
KIN 5305 – Motor Learning

Courses offered every Spring
KIN 5304 – Clinical Internship
KIN 5301 – Independent Study
KIN 5313 – Applied Sport Psychology
KIN 5316 – Research Methods II
KIN 5317 – Seminar
KIN 6000 – Thesis
KIN 7000 – Research

Courses offered in the Spring, but during ***odd years only***
KIN 5307 – Motor Development
KIN 5332 – Applied Physiology of Exercise
KIN 5334 – Clinical Exercise Testing and Prescription
KIN 5353 – Research and Assessment of Muscular Performance
KIN 5318 – Biomechanical Assessment of Human Performance

Courses offered in the Spring, but during ***even years only***
KIN 5330 – Health Issues for the Active Female
KIN 5337 – Electrocardiography
KIN 5355 – Program Design for Strength and Conditioning
KIN 5358 – Ergogenic Aids and Human Performance