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 Research 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 (15 hrs)          Human Performance Track (15 hrs)          Research with Thesis (9 hrs)
KIN 5330 Active Female          KIN 5317 Seminar                        KIN 5332 Applied Physiology
KIN 5303/13 Psychology          KIN 5318 Biomechanical Assessment       KIN 6000 Thesis (6 hrs)
KIN 5334 Clinical Exercise Testing KIN 5353 Assessment Muscular Perform. KIN 5332 Applied Physiology
KIN 5337 Electrocardiography    KIN 5355 Program Design                  KIN 6000 Thesis (6 hrs)
KIN 5304 Clinical Internship (3 hrs) KIN 5358 Ergogenic Aids

Electives (must be approved by advisor)
*KIN 5304 Clinical Internship (3 hours) NS 5335 Issues in Sports Nutrition
KIN 5302 Motor Control          NS 5350 Nutritional Pathophysiology
KIN 5303 Psychology of Sport    NS 6325 Nutrition, Exercise, & Sport
KIN 5305 Motor Learning         ANSC 5316 Muscle Chemistry
KIN 5307 Motor Development       CHEM 5334 Principles of Biochemistry
KIN 5313 Applied Sport Psychology CHEM 5339 Biochemistry I
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

*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
†This course is only available for research track students.
Course Rotation

Courses offered every Fall
KIN 5304 – Clinical Internship
KIN 5301 – Independent Study
KIN 5303 – Psychology of Sport
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 5313 – Applied Sport Psychology

Courses offered in the Fall, but during even years only
KIN 5305 – Motor Learning
KIN 5303 – Psychology of Sport

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 5302 – Motor Control
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