Prerequisites:

- Two semesters of college chemistry
- Lower division class in human anatomy
- At least one class in general biology
- Undergraduate classes in kinesiology or biomechanics
- Undergraduate class in exercise physiology
- Upper division class in human physiology (grade of C or higher)

The classes listed above are meant to be used as a guide, not as absolute requirements. Students may be required to take some of the classes prior to being accepted. If you lack one or two of the recommendations, you may be accepted into the program with the condition that you complete any deficiencies while in the program. If you have specific questions about your requirements, you should contact the program faculty listed on the Faculty page.

Suggested Courses:

The coursework in this concentration is divided up according to the general Master's guidelines. The hours are typically distributed as follows: (a) research tools, 6-7 hours; (b) area of concentration, 12-15 hours; (c) disciplinary support, 6 hours; and (d) thesis, 6 hours. A typical distribution of courses would be as shown below. For course descriptions, follow this link: /khp/courses-and-syllabi/

Research Tools

1. STA 570 or EPE/EDP 557 - Basic Statistical Analysis - 3 or 4 credits
2. KHP 644 - Research Techniques Applied to KHP

Typical Sequence in Exercise Physiology

Fall of First Year

KHP 600 - Exercise Stress Testing and Prescription
KHP 640 - Laboratory Methods in Exercise Science
Physiology 412 G or 502 - 4 or 5 credits

Spring of First Year

STA 570 or EPE/EDP 557 - Basic Statistical Analysis - 3 or 4 credits
KHP 620 - Advanced Exercise Physiology
KHP 644 - Research Techniques Applied to KHP

Fall of Second Year

KHP 781 - Muscle Physiology
Electives 6 credits

Spring of Second Year

Thesis or internship 6 credits
or electives 6-9 credits
Total 34-37 credits

All of the courses listed above are required for exercise physiology majors. Research Methods in KHP and Statistics are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to exercise physiology majors. Courses listed below are samples of elective courses available on campus.

Examples of Elective Courses Available in Dept. and University

KHP 350 - Strength and Conditioning for Sports - 3 credits
KHP 546 - Scientific Basis for Coaching - 3 credits
KHP 560 - Motor Development in Infants and Young Children. - 3 credits
KHP 615 - Biomechanics of Fundamental Movements - 3 credits
KHP 618 - Ergonomics and Work Hardening - 3 credits
KHP 674 - Foundations of Health Promotion - 3 credits
KHP 675 - Health Assessments - 3 credits
KHP 685 - Supervision of Sport and Fitness Personnel - 3 credits
KHP 720 - Sports Medicine - 3 credits
KHP 781 - Seminar in Exercise and Disease - 3 credits
KHP 781 - Seminar in Computer Methods in Exercise Science - 3 credits
KHP 782 - Independent Research in KHP - 3 credits
AT 685 - Principles of Applied Kinesiology EMG - 3 credits
CNU 605 - Wellness and Sports Nutrition - 3 credits
GRN 612 - Biology of Aging - 3 credits
GRN 643 - Biomedical Aspects of Aging - 3 credits
PM 601 - Occupational and Environmental Health - 4 credits
PGY 604 - Advanced Cardiovascular Physiology - 3 credits
PGY 608 - Advanced Renal Physiology - 3 credits
PGY 609 - Advanced Respiratory Physiology - 3 credits
PGY 615 - Seminar in Teaching Medical Science - 2 credits
PGY 630 - Advanced Topics in Physiology: Skeletal Muscle - 1-3 credits