# M.S.E.S. in Exercise Science

## Description
The M.S. in exercise science prepares students for careers in fitness and allied health and research. The degree also prepares students for advanced study at the doctoral (Ph.D.) level.

## Minimum Total Credit Hours: 32

## Course Requirements
For the M.S. in exercise science, a minimum of 33 semester hours of graduate study is required. Requirements for the M.S. in exercise science are a minimum of 12 hours from the exercise science core curriculum, 6 hours of supporting curriculum, 6 hours of research design and statistics, a minimum of 3 hours of electives, and either 6 hours of thesis or 9 hours of internship or 6 additional hours of adviser-approved elective course work as the capstone learning experience.

### Core Curriculum (12 hours)
- ES 512 - Foundations of Biomechanics* (3)
- ES 611 - Exercise Physiology I* (3)
- ES 614 - Cardiovascular Physiology (3)
- ES 632 - Advanced Structural Kinesiology (3)

### Supporting Curriculum (6 hours)
- ES 514 - Applied EMG (3)
- ES 609 - Motor Behavior (3)
- ES 608 - Methods and Procedures of Graded Exercise Testing (core) (3)
- ES 612 - Instrumentation and Analysis in Biomechanics (3)
- ES 613 - Health Aspects of Physical Activity (3)
- ES 615 - Physiological Aspects of Aging (3)
- ES 616 - Exercise Physiology II (3)
- ES 618 - Advanced Muscle Physiology (3)
- ES 620 - Selected Topics in Exercise Science (3)
- ES 644 - Control of Human Movement (3)
- ES 548 - Biomechanics of Injury (3)

### Electives (3-9 hours)
- ES 651 - Advanced Individual Study (3)
- ES 652 - Advanced Individual Study (3)
- Any non-core course (adviser-approved) (3)

### Research and Statistics (6 hours)
- ES 625 - Research Design and Evaluation (3)
- ES 652 - Statistics (adviser-approved) (3)

### Capstone Learning Requirement (6 or 9 hours)
- ES 610 - Internship in Exercise Science (9)
- ES 697 - Thesis (6)
- Adviser-approved elective course work (6)

*Requires completion of equivalent undergraduate level course or approval of instructor.