

# 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.

