

## Emphasis - Neuromechanics

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### 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 18 hours in either the exercise physiology or neuromechanics emphasis area, to include the 12 core hours, 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.

### Emphasis - Neuromechanics Course Requirements

Neuromechanics Emphasis (18 hours) ES 512-Foundations of Biomechanics\* (core) (3) ES 514-Applied EMG (3) ES 609-Motor Behavior (core) (3) ES 612-Instrumentation and Analysis in Biomechanics (3) ES 620-Selected Topics in Exercise Science (3) ES 632-Advanced Structural Kinesiology (core) (3) ES 644-Control of Human Movement (core) (3) ES 648-Biomechanics of Injury (3)

Electives (3-6 hours) ES 651-Advanced Individual Study (3) ES 652-Advanced Individual Study (3) Any course(s) from the nonselected emphasis area (3-6) Non-ES course (advisor approved) (3)

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

Practical Training Requirement (6-9 hours) ES 612-Internship in Exercise Science (9) ES 697-Thesis (6)

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

#### Degree Requirements

The academic regulations for this degree program, as entered in the University of Mississippi Catalog, are in effect for the current or selected academic year and semester. The University of Mississippi reserves the right to 1) change or withdraw courses; 2) change rules for registration, instruction, and graduation; and 3) change other regulations affecting the student body at any time.

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">ES 625</a> - C min	3	Complete <a href="#">ES 625</a> with a grade of C or better.
<a href="#">ES 652</a> - C min	1	Successfully complete <a href="#">ES 652</a> with a grade of C or better.
Additional courses	12	Student must complete 12 hours of additional coursework. Choose from the following courses: - Practical Training (6-9 hours) - <a href="#">ES 697</a> (6 hours) or - <a href="#">ES 610</a> (9 hours) - Electives (3-6 hours) - <a href="#">ES 651</a> , - <a href="#">ES 652</a> , - Any course from the nonselected emphasis area, or - Non-ES course (advisor approved).
GPA requirements		A cumulative average of not less than 3.0 (B) must be achieved in all graduate work taken.
Applied Science Dean's approval		This Degree Audit program is an advising tool only. The student must still apply for a degree by returning a completed Degree Application Form to the dean's office before the last day to add classes in the semester preceding the semester in which the student expects to graduate. The dean's office will make the final certification that the courses listed on the application qualify the student for graduation. The dean's office will also determine if other university requirements (GPA, etc.) have been met.

