TEXAS A&M UNIVERSITY

DEPARTMENT OF KINESIOLOGY & SPORT MANAGEMENT

Doctor of Philosophy in Kinesiology

with Specialization in Motor Neuroscience

(May 2024)

Total credit hours required for degree: Minimum of 60 with a Master's degree

Required Common Core		**Credit Hours: 45**
KINE 614	External Research Fund Development	**3**
KINE 681	Seminar	**6**
KINE 682[1]	Doctoral Seminar in Motor Neuroscience	**3**
KINE 685	Directed Studies	**12**
KINE 690	Theory of Research in Discipline	**3**
KINE 691	Research	**18**

[1] A minimum of 2 KINE 682 seminars of 1.5 credit hour each are needed

Required Exercise Physiology Core and Electives		**Credit Hours: 15**
STAT 652	Research in Statistics II	**3**
Advisor Directed Electives[2]		**12**
	STATS	**0**
	KINE	**9**
	Non-KINE	**3**

[2] A minimum of 12 credit hour Advisor Directed Electives should be chosen in consultation with the student's academic advisor with **at least 3 credit hours of Non-KINE Electives**. The remainder of credit hours can be selected from STATS and KINE Electives.

The following STATS, KINE, and Non-KINE courses list serves as guidelines for elective courses approved by the Exercise Physiology graduate faculty. Courses not listed below may also be taken with advisor approval.

Advisor Directed Electives - **STATS**		Credit Hours
STAT 608	Regression Analysis	**3**
STAT 636	Applied Multivariate Analysis	**3**
STAT 638	Introduction to Applied Bayesian Statistics	**3**
STAT 653	Statistics in Research III	**3**
STAT 654	Statistics using R and Python	**3**

Advisor Directed Electives - **KINE**		Credit Hours
KINE 601	Reading Research Publications in Kinesiology	**3**
KINE 606	Motor Neuroscience I	**3**
KINE 627	Exercise Biomechanics	**3**
KINE 640	Motor Neuroscience II	**3**
KINE 641	Motor Neuroscience: Developmental Issues	**3**
KINE 642	Self Organization in Motor Neuroscience	**3**
KINE 684	Professional Internship	**3**
KINE 689	Non-Invasive Brain Stimulation: From Basic Science to Clinical Practice	**3**
KINE 689	Neuromechanics Research Methods	**3**
KINE 689	Neuromechanics Data Analysis	**3**

Advisor Directed Electives - **Non-KINE**		Credit Hours
PBSI 603	Motivation and Cognitive Processes	**3**
NRSC 601	Principles of Neuroscience I	**3**
NRSC 602	Principles of Neuroscience II	**3**
NRSC 603	Neuroanatomy	**4**
NRSC 605	Neuroanatomical Systems	**3**
NRSC 606	Learning	**3**
NRSC 621	Functional Neuroanatomy	**3**
NRSC 642	Neuroimaging Data Analysis	**3**
ISEN 630	Human Operator in Complex Systems	**2**
ISEN 635	Human Information Processing	**3**

RESEARCH EXPERIENCE REQUIREMENT

- Before scheduling the dissertation proposal meeting each student will:
    1. have presented, as sole or first author, at least one presentation at a state, regional, or national conference; AND
    2. will be an author on at least one research paper submitted to a peer-reviewed national or international journal.
    3. Also, before graduation, it is expected that students will submit at least one first-authored manuscript derived from the dissertation to a national or international refereed journal(s).

MINIMAL HOUR REQUIREMENT

- The Ph.D. requires a minimum of 60 hours beyond the Master's or 90 hours beyond the Baccalaureate degree. Depending on preparation and experience, doctoral students may be required to complete undergraduate and graduate leveling work in addition to the minimum Ph.D. requirements (see below).

MINIMUM PREREQUISITES OR COMPETENCIES

- Refer to the Texas A&M University Graduate and Undergraduate Catalog for course descriptions. Competency in the content of the course is required rather than the specific course by number. The student applying to our graduate program is responsible for providing written evidence that these competencies have been met. Please note that courses taken online or at distance will not be accepted for laboratory-enhanced courses. The graduate office in the Department of Kinesiology and Sport Management in consultation with graduate committee chairs/advisors will review transcripts to verify the evidence. Deficiencies in these competencies may necessitate the student taking coursework in addition to the 60 semester hours required for the doctoral degree.