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MASTER OF SCIENCE IN KINESIOLOGY (BIOMECHANICS AND MOTOR BEHAVIOR)

Web Site: https://twu.edu/kinesiology/graduate-programs/biomechanics/

Graduate courses in the School of Health Promotion and Kinesiology are designed to provide qualified individuals with the opportunity to pursue advanced study beyond the baccalaureate level. Biomechanics, exercise physiology, biochemistry, and motor behavior/pedagogy laboratories have been dedicated specifically to teaching and research.

Marketable Skills

Defined by the Texas Higher Education Coordinating Board's 60x30 Strategic Plan (http://www.60x30tx.com/) as, "Those skills valued by employers that can be applied in a variety of work settings, including interpersonal, cognitive, and applied skills areas. These skills can be either primary or complementary to a major and are acquired by students through education, including curricular, co-curricular, and extracurricular activities."

- Accurately apply knowledge to the betterment of the field of Kinesiology.
- 2. Assess needs in the Kinesiology field and recommend appropriate solutions

Admissions

All students must meet the University requirements as outlined in the Admission to the TWU Graduate School (http://catalog.twu.edu/graduate/graduate-school/admission-graduate-school/) section of the catalog.

This academic program may have additional admission criteria that must also be completed as outlined on the program's website.

Degree Requirements

Prerequisites

- Anatomy (Functional Anatomy)
- Kinesiology & Biomechanics
- Motor Learning & Control
- Exercise Physiology

Prerequisite courses may be taken during the program but will not be counted toward the degree.

Total Semester Credit Hours Required

Thesis Option: 30 semester credit hours (SCH)

Publishable Manuscript Option: 36 semester credit hours (SCH)

Thesis Option (30 SCH)

Code Title SCHs Kinesiology Core 6

KINS 5023 Methods of Research

	KINS 5033	Applied Statistical Principles	
Bi	omechanics & Mo	otor Behavior Emphasis	12
	KINS 5513	Mechanical Analysis of Human Motion	
	KINS 6563	Human Motor Control	
	KINS 6623	Biomechanical Analysis I: Motion Analysis	
	KINS 6643	Biomechanical Analysis II: Data Acquisition and Instrumentation	
Biomechanics & Motor Behavior Electives			6
Select 6 SCH in consultation with advisor			
	KINS 5903	Special Topics	
	KINS 5813	Research in Kinesiology	
	KINS 5913	Independent Study	
	KINS 6523	Advanced Biomechanics	
	KINS 6573	Motor Learning and Performance	
	MATH 5913	Independent Study	
Cı	ılminating Experi	ence	
ΚI	NS 5983	Thesis	3
ΚI	NS 5993	Thesis	3
To	tal SCHs		30
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		script Option (36 SCH)	SCH*
Co	ode	ISCRIPT UPTION (36 SCH) Title	SCHs
Co	ode nesiology Core	Title	SCHs 6
Co	ode nesiology Core KINS 5023	Title Methods of Research	
Co Ki	nesiology Core KINS 5023 KINS 5033	Title Methods of Research Applied Statistical Principles	6
Co Ki	ode nesiology Core KINS 5023 KINS 5033 omechanics & Mo	Title Methods of Research Applied Statistical Principles otor Behavior Emphasis	
Co Ki	ode nesiology Core KINS 5023 KINS 5033 omechanics & Mo KINS 5513	Methods of Research Applied Statistical Principles otor Behavior Emphasis Mechanical Analysis of Human Motion	6
Co Ki	nesiology Core KINS 5023 KINS 5033 omechanics & Mo KINS 5513 KINS 6523	Methods of Research Applied Statistical Principles Otor Behavior Emphasis Mechanical Analysis of Human Motion Advanced Biomechanics	6
Co Ki	nesiology Core KINS 5023 KINS 5033 omechanics & Mo KINS 5513 KINS 6523 KINS 6563	Methods of Research Applied Statistical Principles otor Behavior Emphasis Mechanical Analysis of Human Motion Advanced Biomechanics Human Motor Control	6
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Optional Minor (6 SCH)

Total SCHs

Students pursuing M.S. with Biomechanics and Motor Behavior emphasis typically do a minor in Math.