

DOCTOR OF PHILOSOPHY IN KINESIOLOGY (BIOMECHANICS AND MOTOR BEHAVIOR)

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

Degree Requirements

Total Semester Credit Hours Required

96 semester credit hours, including approved semester credit hours from master's level work and 6 semester credit hours for dissertation.

Code	Title	SCHs
Required Courses		
KINS 5033	Applied Statistical Principles (Research tools)	3
KINS 6043	Statistical Inference (Research tools)	3
KINS 6113	Seminar	3
KINS 6143	Research Design in Kinesiology (Research tools)	3
HSC 6831	Integration of Theory and Research in Health Sciences	1
Emphasis Area (Must select one)		77
Dissertation		
KINS 6983	Dissertation (I)	3
KINS 6993	Dissertation (II)	3
Total SCHs		96

Biomechanics and Motor Behavior Emphasis

Code	Title	SCHs
KINS 5513	Mechanical Analysis of Human Motion	3
KINS 6523	Advanced Biomechanics	3
KINS 6563	Human Motor Control	3
KINS 6573	Motor Learning and Performance	3
KINS 6623	Biomechanical Analysis I: Motion Analysis	3
KINS 6643	Biomechanical Analysis II: Data Acquisition and Instrumentation	3
KINS 6813	Advanced Research in Kinesiology (Taken 4 times)	12
Minor or Related Studies (As approved by Advisory Committee)		21

May include

MATH 5513	Matrix Algebra	
MATH 5593	Differential Equations	
MATH 5573	Statistical Methods I (Research Tools)	
MATH 5583	Statistical Methods II (Research Tools)	
MATH 5913	Independent Study	
CSCI 5103	Fundamentals of Informatics	
CSCI 5663	Statistical Programming (Research Tools)	
CSCI 5913	Independent Study	
PT 6913	Independent Study	

Electives or Appropriate Coursework from Master's Degree (As approved by Advisory Committee) 26

May include		
HS 5063	Aging and Health	
HS 6403	Environmental Health	
KINS 5123	Professional Affiliation	
KINS 5203	Theory of Coaching	
KINS 5263	Sport Psychology	
KINS 5273	Sport Conditioning and Nutrition	
KINS 5293	Technical Skills Analysis	
KINS 5503	Physiological Responses During Alternative Modes of Exercise	
KINS 5553	Advanced Exercise Physiology	
KINS 5593	Environmental Exercise Physiology	
KINS 5603	Growth and Perceptual Motor Development for Individuals with Low Incidence Disabilities	
KINS 5613	Cardiovascular Response to Exercise	
KINS 5693	Applied Techniques in Biomechanics and Exercise Physiology	
KINS 5963	APA I: Disability Sport and Fitness	
KINS 5883	APA II: Disability Sport and Fitness	
KINS 6813	Advanced Research in Kinesiology	
KINS 6903	Special Topics	
KINS 6913	Independent Study	
Total SCHs		77

Required Courses

13 semester credit hours.

Emphasis

77 semester credit hours, depending on emphasis area and recommendations of the Advisory Committee. Includes Minor or Related Studies and/or Electives and Appropriate Coursework from Master's Degree in consultation with the Advisory Committee.

Dissertation

Six semester credit hours.

Special Requirements

At least nine semester credit hours of course work must be taken outside the major.

Research Tools

The student in consultation with the Advisory Committee will determine 12 semester credit hours designated as research tools.

Qualifying Examination

The exam is comprised of four written sections over selected areas of the student's emphases and an oral defense of written responses. May be repeated once.

Final Examination

Oral examination conducted by the Dissertation Committee over the candidate's research after the dissertation is completed. May be repeated at the discretion of the committee.