

KINESIOLOGY - BS, EXERCISE SCIENCE TRACK, MOTOR BEHAVIOR CONCENTRATION

The Bachelor of Science degree in Kinesiology offers several tracks designed to prepare students for a variety of careers. The track options available develop a strong science background making students excellent candidates for employment opportunities in human movement/exercise related areas (cardiac rehabilitation, corporate or private fitness), advanced graduate studies (motor neuroscience, kinesiology, exercise physiology) or professional school (physical or occupational therapy or medical and dental school). Course pre-requisites are included in the various programs under all tracks to support students wishing to pursue professional school study or graduate school study. Additional program and track information is available on the Department of Kinesiology and Sport Management website or may be obtained by contacting the advising office in the department.

The Motor Behavior track provides students a broad science background with special emphasis on aligning the cognitive/perceptual processes underlying human movement with the neural areas associated with those processes. Professional directed electives allow students to obtain the prerequisites unique to the professional school of choice, physical or occupational therapy, medical or dental school. This track provides the background for students that wish to pursue graduate work in Motor Neuroscience or Human Movement Science programs. Students in this track may enroll in independent study leading to an undergraduate research project in motor behavior areas (development, learning, or control).

Program Requirements

This degree plan has been laid out showing students the number of hours they must take each semester in order to complete the degree in four years without attending summer school. This is a suggested plan and does not have to be followed as laid out below. Students should use this information in conjunction with advising documents available from their advisor or the department website when scheduling courses each semester to ensure they are meeting all prerequisites, taking courses for admission to professional phase in a timely manner and meeting all grade requirements.

First Year

Fall		Semester Credit Hours
BIOL 111	Introductory Biology I ¹	4
KINE 199	Required Physical Activity ^{1,2,3}	1
KINE 213	Foundations of Kinesiology ¹	3
Select from the following: ¹		3-4
MATH 140	Mathematics for Business and Social Sciences	
MATH 148	Calculus II for Biological Sciences	
MATH 152	Engineering Mathematics II	
MATH 168	Finite Mathematics	
MATH 172	Calculus II	

American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ^{4,5}	3
---	---

Semester Credit Hours 14

Spring		
BIOL 112	Introductory Biology II ¹	4
ENGL 103 or ENGL 104	Introduction to Rhetoric and Composition ¹ or Composition and Rhetoric	3
Select one of the following: ¹		3-4
MATH 142	Business Calculus	
MATH 147	Calculus I for Biological Sciences	
MATH 151	Engineering Mathematics I	
MATH 171	Calculus I	
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ^{4,5}		3
Professional development elective ^{1,6}		3

Semester Credit Hours 16

Second Year

Fall		
CHEM 119	Fundamentals of Chemistry I ¹	4
POLS 206	American National Government	3
PBSI 107	Introduction to Psychology	3
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ^{4,5}		3
Professional development elective ^{1,6}		3

Semester Credit Hours 16

Spring		
CHEM 120	Fundamentals of Chemistry II ¹	4
KINE 121	Physical and Motor Fitness Assessment ^{1,3}	2
PHYS 201	College Physics ¹	4
SOCI 205	Introduction to Sociology ¹	3
Select one of the following: ¹		3
ENGL 210	Technical and Professional Writing	
COMM 203	Public Speaking	
COMM 205	Communication for Technical Professions	
COMM 243	Argumentation and Debate	

Semester Credit Hours 16

Third Year

Fall		
BIOL 319	Integrated Human Anatomy and Physiology I ^{1,3}	4
KINE 199	Required Physical Activity ^{1,2,3}	1
KINE 307	Lifespan Motor Development ¹	3
POLS 207	State and Local Government	3
PBSI 306	Abnormal Psychology ¹	3

Semester Credit Hours 14

Spring		
BIOL 320	Integrated Human Anatomy and Physiology II ^{1,3}	4
KINE 318	Athletic Injuries ¹	3

PBSI 307 or PBSI 225	Developmental Psychology ¹ or Lifespan Development	3
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ^{4,5}		3
Professional development elective ^{1,6}		3
Semester Credit Hours		16

Fourth Year**Fall**

KINE 427	Therapeutic Principles ¹	3
KINE 433	Physiology of Exercise ¹	3
KINE 435	Physiology of Exercise Lab ^{1,7}	1
PHYS 202	College Physics ¹	4
STAT 302 or STAT 303	Statistical Methods ¹ or Statistical Methods	3
Semester Credit Hours		14

Spring

KINE 406	Motor Learning and Skill Performance ¹	3
KINE 407	Motor Control and Learning Lab ^{1,7}	1
KINE 426	Exercise Biomechanics ¹	3
KINE 428	Exercise Biomechanics Laboratory ¹	1
Professional development elective ^{1,6}		3
Professional development elective ^{1,6}		3
Semester Credit Hours		14
Total Semester Credit Hours		120

¹ Must make a grade of C or better.² Activities should be chosen in consultation with your advisor.
Participation in band or athletics cannot be used for KINE 199 credit.
KINE 199 activities cannot be repeated for credit and must be taken for a grade.³ Must be taken at Texas A&M University.⁴ Course selection should meet the International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) and/or Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) graduation requirement, if needed.⁵ Must meet core curriculum requirements.⁶ To be chosen in consultation with your academic advisor.
Select from: BICH 410, BICH 411, BICH 412; BIOL 206, BIOL 213
BIOL 351, BIOL 405, BIOL 434/NRSC 434, BIOL 454, CHEM 227,
CHEM 228, CHEM 237, CHEM 238; COMM 370; GENE 301 and
GENE 312 or GENE 310 or GENE 320/BIMS 320; HLTH 231,
HLTH 335 HLTH 353, HLTH 354; KINE 216/HLTH 216, KINE 285,
KINE 305, KINE 340, KINE 485, KINE 491, NUTR 202, NUTR 300-499
(<http://catalog.tamu.edu/undergraduate/course-descriptions/nutr/>);
PHIL 111, PHIL 251, PHIL 480; PBSI 300-305 (<http://catalog.tamu.edu/undergraduate/course-descriptions/pbsi/>), PBSI 308-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/pbsi/>);
SPMT 304 or PBSI 304; VTPB 409, VTPP 425; KINE 240/HLTH 240 or
ISTM 209 or ISTM 210.⁷ Meets University writing requirement.