

KINESIOLOGY - BS, EXERCISE SCIENCE TRACK, APPLIED EXERCISE PHYSIOLOGY 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 prerequisites 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 Applied Exercise Physiology track prepares students to become clinical exercise physiologists working in cardiopulmonary rehabilitation programs. This program contains a strong science background making students excellent candidates for professional schools such as Physical Therapy School. Students can also prepare for immediate employment in clinical fields to include areas like cardiac and pulmonary rehabilitation, pharmaceutical sales and medical equipment sales and service. In addition, students also train for jobs as personal trainers or corporate/private fitness specialists. This track also enables students to continue their education in fields such as Clinical Exercise Physiology, Sport Physiology and Nutrition.

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
ENGL 104 or ENGL 103	Composition and Rhetoric ¹ or Introduction to Rhetoric and Composition	3
KINE 121	Physical and Motor Fitness Assessment ^{1,2}	2
Select one of 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	
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ^{3,4}		3

Semester Credit Hours 15

Spring

BIOL 112	Introductory Biology II ¹	4
CHEM 119	Fundamentals of Chemistry I ¹	4
KINE 213	Foundations of Kinesiology ¹	3
American history elective (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ^{3,4}		3
Professional development elective ^{1,3,5}		3

Semester Credit Hours 17

Second Year

Fall

CHEM 120	Fundamentals of Chemistry II ¹	4
PBSI 107	Introduction to Psychology	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) ^{3,4}		3
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Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ^{3,4}		3
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Semester Credit Hours 16

Spring

BIOL 319	Integrated Human Anatomy and Physiology I ^{1,2}	4
KINE 199	Required Physical Activity ^{1,2,6}	1
PHYS 201	College Physics ¹	4
POLS 207	State and Local Government	3
Professional development elective ^{1,3,5}		3

Semester Credit Hours 15

Third Year

Fall

BIOL 320	Integrated Human Anatomy and Physiology II ^{1,2}	4
KINE 318	Athletic Injuries ¹	3
PHYS 202	College Physics ¹	4
POLS 206	American National Government	3
Select one of the following: ¹		3

COMM 203	Public Speaking	
COMM 205	Communication for Technical Professions	
COMM 243	Argumentation and Debate	
ENGL 210	Technical and Professional Writing	

Semester Credit Hours 17

Spring

KINE 199	Required Physical Activity ^{1,2,6}	1
KINE 307	Lifespan Motor Development ¹	3
KINE 433	Physiology of Exercise ¹	3
KINE 435	Physiology of Exercise Lab ^{1,7}	1
KINE 439	Exercise Evaluation and Prescription ^{1,7}	4
Professional development elective ^{1,3,5}		3
Semester Credit Hours		15

Fourth Year**Fall**

KINE 406	Motor Learning and Skill Performance ¹	3
KINE 426	Exercise Biomechanics ¹	3
KINE 427	Therapeutic Principles ¹	3
KINE 428	Exercise Biomechanics Laboratory ¹	1
KINE 483	Practicum in Kinesiology ¹	3
Professional development elective ^{1,3,5}		3
Semester Credit Hours		16

Spring

KINE 484	Internship in Kinesiology ¹	9
Semester Credit Hours		9
Total Semester Credit Hours		120

¹ Must make a grade of C or better.² Must be taken at Texas A&M University.³ Course selection should meet the International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) (ICD) and/or Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) (CD) graduation requirement, if needed.⁴ Must meet Core Curriculum requirements.⁵ To be chosen in consultation with your academic advisor 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, GENE 312 or GENE 320/BIMS 320, GENE 310; HLTH 231, HLTH 335, HLTH 353, HLTH 354; KINE 216/HLTH 216, KINE 285, KINE 305, KINE 340, KINE 485, KINE 491; NUTR 202 or NUTR 203, NUTR 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/nutr/>); PHIL 111, PHIL 251, PHIL 480; PBSI 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/pbsi/>); PBSI 225 or PBSI 307; VTPB 409, VTPP 425; KINE 240/HLTH 240 or ISTM 209 or ISTM 210; PBSI 304 or SPMT 304; SOCI 205; STAT 302 or STAT 303.⁶ Must take Majors Aerobic Movement and Majors Res/Flex. 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.⁷ Meets Core Curriculum writing requirement.