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 |
| | 1 | Hours |
| BIOL 111 | Introductory Biology I | 4 |
| KINE 199 | Required Physical Activity 1,2,3 | 1 |
| KINE 213 | Foundations of Kinesiology ¹ | 3 |
| Select from the fo | 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 Semester Credit Hours 14 BIOL 112 Introductory Biology II 1 4 ENGL 103 Introduction to Rhetoric and Composition 3 or ENGL 104 or Composition and Rhetoric Select one of the following: 1 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 Professional development elective 1.6 Semester Credit Hours 16 Semester Credit Hours 16 Semester Credit Hours 17 Application 17 Polls 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 Professional development elective 1.6 Semester Credit Hours 16 Semester Credit Hours 16 Physical and Motor Fitness Assessment 1.3 Semester Credit Hours 16 Spring 16 CHEM 120 Fundamentals of Chemistry II 1 A CHEM 120 Fundamentals II 1 A CHEM 120 Fundamentals II 1 | | | |
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| 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 307 | | 3 |
| Semester Credit Hours 14 Spring BIOL 320 Integrated Human Anatomy and Physiology II 1,3 | POLS 207 | | 3 |
| Semester Credit Hours 14 Spring BIOL 320 Integrated Human Anatomy and Physiology II 1,3 | PBSI 306 | Abnormal Psychology ¹ | 3 |
| Spring BIOL 320 Integrated Human Anatomy and Physiology 4 II 1,3 | | | |
| BIOL 320 Integrated Human Anatomy and Physiology 4 II ^{1,3} | Spring | | |
| | - | | 1 |
| • · · · · · · · · · · · · · · · · · · · | BIOL 320 | Integrated Human Anatomy and Physiology II ^{1,3} | 4 |

| | Total Semester Credit Hours | 120 |
|--|---|-----|
| | Semester Credit Hours | 14 |
| Professional development elective ^{1,6} | | |
| Professional development elective ^{1,6} | | 3 |
| KINE 428 | Exercise Biomechanics Laboratory ¹ | 1 |
| KINE 426 | Exercise Biomechanics ¹ | 3 |
| KINE 407 | Motor Control and Learning Lab ^{1,7} | 1 |
| KINE 406 | Motor Learning and Skill Performance ¹ | 3 |
| Spring | Semester Great Hours | |
| 01 31A1 303 | Semester Credit Hours | 14 |
| STAT 302 or STAT 303 | or Statistical Methods | 3 |
| PHYS 202 | College Physics ¹ Statistical Methods ¹ | 4 |
| KINE 435 | Physiology of Exercise Lab ^{1,7} | 1 |
| KINE 433 | Physiology of Exercise 1 | 3 |
| KINE 427 | Therapeutic Principles | 3 |
| Fall | | |
| Fourth Year | | |
| | Semester Credit Hours | 16 |
| Professional dev | velopment elective ^{1,6} | 3 |
| undergraduate/g curriculum/#lan | sophy and culture (http://catalog.tamu.edu/ general-information/university-core- guage-philosophy-culture) ^{4,5} | 3 |
| PBSI 307 or PBSI 225 | Developmental Psychology ¹ or Lifespan Development | 3 |
| | | |

¹ Must make a grade of C or better.

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.

Must be taken at Texas A&M University.

Course selection should meet the International and Cultural Diversit (http://catalog.tamu.edu/undergraduate/general-information/degreeinformation/international-cultural-diversity-requirements/)y and/or Cultural Discourse (http://catalog.tamu.edu/undergraduate/generalinformation/degree-information/cultural-discourse-requirements/) graduation requirement, if needed.

Must meet core curriculum requirements.

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.

Meets University writing requirement.