KINESIOLOGY - BS, EXERCISE SCIENCE TRACK, BASIC 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 Basic Exercise Physiology track provides a background in the physical and biological sciences required for additional graduate study in Exercise Physiology or entry into medical or dental professional school. Students pursuing medical or dental school use professional directed elective hours to meet professional school entrance requirements. Students planning to pursue a graduate degree in Exercise Physiology may enroll in independent study leading to an undergraduate research project.

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  4
ENGL 103  Introduction to Rhetoric and Composition  3
or ENGL 104 or Composition and Rhetoric
KINE 213  Foundations of Kinesiology  3
PBSI 107  Introduction to Psychology  3
Select from the following:  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

Spring  Semester Credit Hours
MATH 172  Calculus II  16

BIOL 112  Introductory Biology II  4
CHEM 119  Fundamentals of Chemistry I  4
KINE 121  Physical and Motor Fitness Assessment  2
Select one of the following:  3-4
MATH 142  Business Calculus
MATH 147  Calculus I for Biological Sciences
MATH 151  Engineering Mathematics I
MATH 171  Calculus I
Professional development elective  3

Second Year

Fall  Semester Credit Hours
BIOL 319  Integrated Human Anatomy and Physiology  4
CHEM 120  Fundamentals of Chemistry II  4
Select one of the following:  3
COMM 203  Public Speaking
COMM 205  Communication for Technical Professions
COMM 243  Argumentation and Debate
ENGL 210  Technical and Professional Writing
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)  3

Spring  Semester Credit Hours
BiOL 320  Integrated Human Anatomy and Physiology  4
CHEM 227  Organic Chemistry I  3
CHEM 237  Organic Chemistry Laboratory  1
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)  3
Professional development elective  3

Third Year

Fall  Semester Credit Hours
BIOL 351  Fundamentals of Microbiology  4
CHEM 228  Organic Chemistry II  3
CHEM 238  Organic Chemistry Laboratory  1
KINE 318  Athletic Injuries  3
POLS 206  American National Government  3
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)  3

Spring  Semester Credit Hours
BICH 410  Comprehensive Biochemistry  3
KINE 199  Required Physical Activity  1
KINE 307  Lifespan Motor Development  3
PHYS 201  College Physics  4
Kinesiology - BS, Exercise Science Track, Basic Exercise Physiology Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Type</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 302</td>
<td>Statistical Methods</td>
<td>or STAT 303</td>
<td>3</td>
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<tr>
<td>GENE 301</td>
<td>Comprehensive Genetics</td>
<td></td>
<td>3</td>
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<tr>
<td>GENE 312</td>
<td>Comprehensive Genetics Laboratory</td>
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<tr>
<td>KINE 433</td>
<td>Physiology of Exercise</td>
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<td>3</td>
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<tr>
<td>KINE 435</td>
<td>Physiology of Exercise Lab</td>
<td>1, 7</td>
<td>1</td>
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<td>PHYS 202</td>
<td>College Physics</td>
<td></td>
<td>4</td>
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<tr>
<td>POLS 207</td>
<td>State and Local Government</td>
<td></td>
<td>3</td>
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<tr>
<td>KINE 406</td>
<td>Motor Learning and Skill Performance</td>
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<td>3</td>
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<tr>
<td>KINE 407</td>
<td>Motor Control and Learning Lab</td>
<td>1, 7</td>
<td>1</td>
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<tr>
<td>KINE 426</td>
<td>Exercise Biomechanics</td>
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<td>3</td>
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<tr>
<td>KINE 427</td>
<td>Therapeutic Principles</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>KINE 428</td>
<td>Exercise Biomechanics Laboratory</td>
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<td>1</td>
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<tr>
<td>Creative arts (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a>)</td>
<td>2, 5</td>
<td>3</td>
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<tr>
<td>HLTH 231</td>
<td>KINE 240</td>
<td>HLTH 354</td>
<td>NUTR 202; NUTR 300-499 (<a href="http://catalog.tamu.edu/undergraduate/course-descriptions/nutr/">http://catalog.tamu.edu/undergraduate/course-descriptions/nutr/</a>); PHIL 111, PHIL 251, PHIL 480; PBSI 300-499 (<a href="http://catalog.tamu.edu/undergraduate/course-descriptions/pbsi/">http://catalog.tamu.edu/undergraduate/course-descriptions/pbsi/</a>); PBSI 225 or PBSI 307; SOCI 205; SPMT 304; VTPP 409, VTPP 425; HLTH 240/KINE 240 or ISTM 209 or ISTM 210.</td>
</tr>
</tbody>
</table>

Semester Credit Hours 14

Fourth Year

Fall

Semester Credit Hours 14

Spring

Semester Credit Hours 15

Total Semester Credit Hours 120

1 Must make a grade of C or better.
2 Course must meet Core Curriculum requirements.
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 To be chosen in consultation with your academic advisor. Select from: BICH 411, BICH 412, BIOL 206, BIOL 213, BIOL 405, BIOL 434/ NRSC 434, BIOL 454; COMM 370; GENE 310, 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 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/pbsi/); PBSI 225 or PBSI 307; SOCI 205; SPMT 304; VTPP 409, VTPP 425; HLTH 240/KINE 240 or ISTM 209 or ISTM 210.

6 Activities should be chosen in consultation with 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.
7 Meets Core Curriculum writing requirement.