BACHELOR OF SCIENCE, MAJOR IN KINESIOLOGY (CLINICAL EXERCISE SCIENCE)

This degree track prepares students for a career in Clinical Exercise Science. Future job prospects include cardiac rehabilitation, hospital/clinic-based fitness and wellness facilities, sport-science based performance facilities, and/or research facilities. This degree also prepares students for further Graduate Education in Exercise Science, Sport and Human Performance, and Allied Health Fields (e.g., physical therapy, occupational therapy, prosthetics and orthotics, etc.). A minor is not required for this track, however, electives should be used to fulfill courses related to one’s career goals.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science, Major in Kinesiology (Clinical Exercise Science)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Component Area I (Communication)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Component Area II (Mathematics)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Component Area III (Life and Physical Science)</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Component Area IV (Language, Philosophy, and Culture)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Component Area V (Creative Arts)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Component Area VI (U.S. History)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Component Area VII (Political Science/Government)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Component Area VIII (Social and Behavioral Sciences)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Component Area IX (Component Area Option)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Degree Specific Requirements

- **BIOL 1406** General Biology I
- **BIOL 2403** Human Anatomy & Physiology I
- **BIOL 2404** Human Anatomy & Physiology II
- **CHEM 1411** General Chemistry I
- **COMS 1361** Public Speaking
- **ENGL 3330** Intro to Technical Writing
- **FACS 2362** Nutrition
- **KINE 1331** Foundations of Kinesiology
- **KINE 2115** Lifetime Health and Wellness
- **MATH 1314** Pre Calculus Algebra
- **MATH 1316** Plane Trigonometry
- **PSYC 1301** Introduction To Psychology
- **PHYS 1301 & PHYS 1101** General Phy-Mechanics & Heat and General Physics Laboratory I

Select one of the following: 3-4

- **BIOL 4374** Biostatistics
- **MATH 3379** Statistical Methods in Practice
- **PSYC 3401** Research Methods
- **STAT 3379** Statistical Methods in Practice

**Major: Foundation**

- **ATTR 4369** or KINE 4314 Therapeutic Exercise Interventions or Advanced Strength Training
- **ATTR 3370** Prevention & Care of Injuries
- **KINE 2114** Wgt Train & Phy Conditioning
- **KINE 3173** Exercise Physiology Laboratory
- **KINE 3362** Functional Kinesiology
- **KINE 3364** Motor Learning
- **KINE 3373** Physiology of Exercise
- **KINE 4362** Biomechanical Analysis
- **KINE 4373** Adv Tpcs in Physlgy of Exercis
Bachelor of Science, Major in Kinesiology (Clinical Exercise Science)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 4375</td>
<td>Kinesiology Research Methods</td>
<td>10</td>
</tr>
<tr>
<td>KINE 4377</td>
<td>Prin Exer Testing/Prescription</td>
<td>9</td>
</tr>
<tr>
<td>KINE 4393</td>
<td>Prncples&amp; Prac of Adlt Fit Mgt</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4394</td>
<td>Internship</td>
<td>12</td>
</tr>
<tr>
<td>KINE 4395</td>
<td>Internship II</td>
<td>12</td>
</tr>
</tbody>
</table>

**Major: Prescribed Electives**

| Total Hours | 120-121 |

1. Satisfies the Core Curriculum requirement for Component Area II (Mathematics). Students interested in attending PT/OT school should take MATH 1314.
2. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4. Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
5. KINE 1331 should be taken in your first or second year and is a prerequisite for all upper level KINE courses. Transfer students can co-enroll.
6. BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details.
7. Must take 8 hour sequence of BIOL 2403 and BIOL 2404.
8. PSYC 3401 will add one hour to the degree.
9. KINE 3173 and KINE 3373 should be taken in the same semester and are prerequisites for KINE 4377, KINE 4373, and KINE 4393.
10. Prerequisites for KINE 4375 include KINE 3362 (http://catalog.shsu.edu/search/?P=KINE%203362), KINE 3364 (http://catalog.shsu.edu/search/?P=KINE%203364), and KINE 3373 (http://catalog.shsu.edu/search/?P=KINE%203373).
11. For all Prescribed Electives, students should ensure that the courses meet professional career goals and/or advanced degree prerequisites. Examples of courses that those interested in the following fields may want to pursue include: (a) Physical Therapy: PHYS 1302, PHYS 1102, PSYC 3374; (b) Occupational Therapy, PSYC 3331, PSYC 3374, & PSYC 3333; (c) PT & OT may also need 1-3 hours of medical terminology. Other suggested electives include: ATTR 4369 & KINE 4369; KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience. Six to nine elective hours may need to be 3000- and/or 4000-level courses to meet the 42 advanced hour requirement. Major Electives may be selected from ATTR, BIOL, CHEM, HILTH, KINE, PHYS, & PSYC.
12. Register for KINE 4394 and KINE 4395 to complete 6 semester credit hours. These classes can be taken in the same semester or two separate semesters.
13. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
14. The following minor cannot be paired with this degree program: Minor in Kinesiology.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3330</td>
<td>Intro to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4375</td>
<td>Kinesiology Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4393</td>
<td>Prncples&amp; Prac of Adlt Fit Mgt</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4394</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4395</td>
<td>Internship II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**

| Total Hours | 25   |

**Notes**

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All KINE majors and/or minors must earn a "C" or better for all KINE/ATTR courses.

KINE 1331 should be taken as a freshman or sophomore and is a prerequisite for all upper level KINE courses.

MATH 1316, MATH 1410 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101. A grade of "C" or higher is required for courses.
CHEM 1411, with a "C" or higher, is a prerequisite for CHEM 1412.

Students must take BIOL 2403 and BIOL 2404 as an 8 hour sequence.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

ATTR 3370 requires prerequisites of KINE 1331, BIOL 2403, and 45+ hours.

KINE 3362 requires prerequisites of KINE 1331, BIOL 2403, and 45+ hours.

KINE 3364 requires prerequisite of KINE 1331 and 45+ hours.

KINE 3373 requires prerequisites of KINE 1331, BIOL 2403, and BIOL 2404, and 45+ hours.

MATH 3379 requires 3 hours of college math.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and 75+ hours.

KINE 4373 requires prerequisites of KINE 3373 and KINE 3173.

KINE 4375 requires prerequisites of KINE 3364, KINE 3362, KINE 3373, and KINE 3173.

KINE 4377 requires prerequisites of KINE 3362, KINE 3173, and KINE 3373.

KINE 4393 requires ATTR 3370, KINE 2114, KINE 2115, KINE 3173, and KINE 3373 and 75+ hours.

KINE 4394 and KINE 4395 require KINE 4393 and KINE 4377.

BIOL 4374 requires 8 hours of advanced BIOL and MATH 1314 or MATH 1420.

Prescribed Electives can be selected from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, & PSYC. Six to nine elective hours may need to be 3000- and/or 4000-level courses to meet the 42 advanced hour requirement.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2403</td>
<td>1, 2</td>
<td>4 BIOL 2404</td>
<td>1, 2</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>3</td>
<td>3 CHEM 1411</td>
<td>3</td>
</tr>
<tr>
<td>KINE 1331</td>
<td>4</td>
<td>3 ENGL 1302</td>
<td>2</td>
</tr>
<tr>
<td>KINE 2115</td>
<td>5</td>
<td>1 KINE 2114</td>
<td>1</td>
</tr>
<tr>
<td>MATH 1314</td>
<td>6</td>
<td>3 PSYC 1301</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component Area IV (<a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a>)</td>
<td></td>
<td>3 Component Area V (<a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a>)</td>
<td></td>
</tr>
<tr>
<td>BIOL 1406</td>
<td>4</td>
<td>3 FACs 2362</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1301</td>
<td>8</td>
<td>3 HIST 1302</td>
<td>8</td>
</tr>
<tr>
<td>MATH 1316</td>
<td>3</td>
<td>3 PHYS 1101</td>
<td>3</td>
</tr>
<tr>
<td>POLS 2305</td>
<td>3</td>
<td>3 PHYS 1301</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 POLS 2305</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 4374, MATH 3379, or PSYC 3401</td>
<td>10</td>
<td>3 ATTR 3370</td>
<td>2</td>
</tr>
<tr>
<td>COMS 1361</td>
<td>5</td>
<td>3 KINE 3364</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3330</td>
<td>3</td>
<td>3 KINE 4373</td>
<td>1</td>
</tr>
<tr>
<td>KINE 3173</td>
<td>3</td>
<td>1 Prescribed Electives</td>
<td>12</td>
</tr>
<tr>
<td>KINE 3362</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. CHEM 1411, with a "C" or higher, is a prerequisite for CHEM 1412.
2. Students must take BIOL 2403 and BIOL 2404 as an 8 hour sequence.
3. ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).
4. ATTR 3370 requires prerequisites of KINE 1331, BIOL 2403, and 45+ hours.
5. KINE 3362 requires prerequisites of KINE 1331, BIOL 2403, and 45+ hours.
6. KINE 3364 requires prerequisite of KINE 1331 and 45+ hours.
7. KINE 3373 requires prerequisites of KINE 1331, BIOL 2403, and BIOL 2404, and 45+ hours.
8. MATH 3379 requires 3 hours of college math.
9. KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.
10. KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and 75+ hours.
11. KINE 4373 requires prerequisites of KINE 3373 and KINE 3173.
12. KINE 4375 requires prerequisites of KINE 3364, KINE 3362, KINE 3373, and KINE 3173.
13. KINE 4377 requires prerequisites of KINE 3362, KINE 3173, and KINE 3373.
14. KINE 4393 requires ATTR 3370, KINE 2114, KINE 2115, KINE 3173, and KINE 3373 and 75+ hours.
15. KINE 4394 and KINE 4395 require KINE 4393 and KINE 4377.
16. BIOL 4374 requires 8 hours of advanced BIOL and MATH 1314 or MATH 1420.
17. Prescribed Electives can be selected from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, & PSYC. Six to nine elective hours may need to be 3000- and/or 4000-level courses to meet the 42 advanced hour requirement.
### Bachelor of Science, Major in Kinesiology (Clinical Exercise Science)

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATTR 4369 or KINE 4314</td>
<td>3</td>
<td>KINE 4394</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4362</td>
<td>3</td>
<td>KINE 4395</td>
<td>3</td>
</tr>
<tr>
<td>KINE 4375(^{11})</td>
<td>3</td>
<td>Prescribed Electives(^{12})</td>
<td>7</td>
</tr>
<tr>
<td>KINE 4377(^{11})</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 4393(^{11})</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours: 120**

1. Satisfies four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).
2. Must take eight hour sequence of BIOL 2403 and BIOL 2404.
3. Satisfies Core Curriculum requirement for Component Area I (Communications).
4. MATH 1410 or MATH 1316 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101. A grade of “C” or higher is required for courses.
5. KINE 3173 should be taken with KINE 3373. Both classes are prerequisites for KINE 4373, KINE 4375, and KINE 4393. BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406. Students must take BIOL 2401 and BIOL 2402 as an eight hour sequence or BIOL 2403 and BIOL 2404 as an eight hour sequence.
6. KINE 3362 requires prerequisites of KINE 1331, BIOL 2403 and 45+ hours.
7. CHEM 1411, with a “C” or higher, is a prerequisite for CHEM 1412.
8. BIOL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).
9. KINE 3364 requires prerequisites of KINE 1331 and 45+ hours.
10. KINE 3373 requires prerequisites of KINE 1331, BIOL 2403, BIOL 2404, and 45 hours.
11. KINE 4362 requires a prerequisite of KINE 3362, PHYS 1301, PHYS 1101, and 75+ hours.

Notes:

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All KINE KINE/ATTR majors and/or minors must earn a “C” or better for all KINE/ATTR courses.

KINE 1331 should be taken as a freshman or sophomore and is a prerequisite for all upper level KINE courses.

ATTR 3370 requires prerequisites of KINE 1331, BIOL 2403 and 45+ hours.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

KINE 3362 requires prerequisites of KINE 1331, BIOL 2403 and 45+ hours.

KINE 3364 requires prerequisites of KINE 1331 and 45+ hours.

KINE 3373 requires prerequisites of KINE 1331, BIOL 2403, BIOL 2404, and 45 hours.

KINE 4362 requires a prerequisite of KINE 3362, PHYS 1301, PHYS 1101, and 75+ hours.

PSYC 3401 will add one hour to the degree.

KINE 3173 should be taken with KINE 3373. Both classes are prerequisites for KINE 4373, KINE 4375, and KINE 4393.

Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406. Students must take BIOL 2401 and BIOL 2402 as an eight hour sequence or BIOL 2403 and BIOL 2404 as an eight hour sequence.

Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

For all Prescribed Electives, ensure that they meet professional career goals and/or advanced degree prerequisites. Athletic Training: Physical Therapy: HLTH 2372, PHYS 1302, PHYS 1102, PSYC 3374, Occupational Therapy, PSYC 3331, PSYC 3374, & PSYC 3333; PT & OT may also need 1-3 hours of medical terminology; Suggested Electives: ATTR 4369 & KINE 4369; KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience. 6-9 of these elective hours may need to be advanced hours to meet 42 advanced hour requirement. Major Electives may be selected from KINE, ATTR, HLTH, PHYS, PSYC, BIOL, or CHEM.

Register for KINE 4394 and KINE 4395 to complete 6 semester credit hours. These classes can be taken in the same semester or two separate semesters.
KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

KINE 4373 requires prerequisites of KINE 3173 and KINE 3373.

KINE 4375 requires prerequisites of KINE 3173, KINE 3362, KINE 3364, and KINE 3373.

KINE 4377 requires a prerequisite of KINE 3362 and KINE 3373.

KINE 4393 requires ATTR 3370, KINE 2114, KINE 2115, KINE 3173, and KINE 3373 and 75+ hours.

KINE 4394 and KINE 4395 require KINE 4393 and KINE 4377.

MATH 3379 requires 3 hours of college math.

BIOL 4374 requires 8 hours of advanced BIOL and MATH 1314 or MATH 1420.

Prescribed Electives can be selected from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, & PSYC. Six to nine elective hours may need to be 3000- and/or 4000-level courses to meet the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Kinesiology (Clinical Exercise Science) is designed to provide graduates with the following marketable skills:

- Exercise assessment and prescription.
- Fitness program design and implementation.
- Critical thinking and decision making related to ethical and professional responsibilities in exercise science.
- Strategies for performance enhancement and prevention of injuries.
- Effective communication with a range of audiences in exercise science settings.