

BACHELOR OF SCIENCE, MAJOR IN KINESIOLOGY (CLINICAL EXERCISE SCIENCE): 3+2 MSAT

In the 3+2 degree option, students must apply and be accepted to the **Master of Science in Athletic Training (MSAT)** program to complete the dual degree. Students who are not accepted to the MSAT should complete the associated BS degree. Students who complete the MSAT 3+2 dual degrees are awarded both the BS and MSAT degrees upon completion of the 3+2 degree requirements. Below are the requirements for the BS in Kinesiology with a Concentration in Clinical Exercise Science + MSAT.

Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process and be accepted to the MSAT program. In order to apply to the 3+2 MSAT program students must complete all undergraduate degree plan requirements (minimum of 95 semester credit hours) and all admission requirements.

Students may apply to the program while coursework is in-progress but may not begin the graduate MSAT program until the prescribed 95 undergraduate semester credit hours are completed and the student has been admitted to the MSAT program.

Once a student is accepted to the graduate MSAT program (<http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/>), students are eligible to begin the MSAT program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. **If a student is not accepted, or does not successfully progress through graduate MSAT coursework, then the student will return to the BS in Kinesiology - Clinical Exercise Science (<http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-clinical-exercise-science/>) to complete their BS degree.**

MSAT Accreditation

- *Sam Houston State University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).*

MSAT Graduate Catalog (<http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-and-msat-athletic-training/>)

BS Kinesiology - Clinical Exercise Science: (<http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-clinical-exercise-science/>)

Code	Title	Hours
Bachelor of Science, Major in Kinesiology (Clinical Exercise Science): 3+2 MSAT		
Core Curriculum (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/)		
Component Area I (Communication)		6
Component Area II (Mathematics) ¹		3
Component Area III (Life and Physical Science) ^{2,3}		8
Component Area IV (Language, Philosophy, and Culture) ⁴		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) ⁵		3
Component Area IX (Component Area Option) ⁶		4
Degree Specific Requirements		
BIOL 1406	General Biology I ^{2,3}	4
BIOL 2403	Human Anatomy & Physiology I ^{2,7}	4
BIOL 2404	Human Anatomy & Physiology II ^{2,7}	4
CHEM 1411	General Chemistry I ²	4
COMS 1361	Public Speaking ⁶	3
FSCN 2362	Nutrition	3
KINE 1331	Foundations of Kinesiology ⁸	3
or ATTR 2300	Introduction to Athletic Training	
KINE 2115	Lifetime Health and Wellness ⁶	1
MATH 1314	Pre Calculus Algebra ¹	3
MATH 1316	Plane Trigonometry ¹	3

PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I ⁹	4
PSYC 1301	Introduction To Psychology ⁵	3
Select one of the following:		3-4
BIOL 4374	Biostatistics	
MATH 3379	Statistical Methods in Practice	
PSYC 3401	Research Methods ¹⁰	
STAT 3379	Statistical Methods in Practice	
Major: Foundation		
KINE 2114	Weight Training and Physical Conditioning	1
KINE 3362	Functional Kinesiology ^{8,9}	3
KINE 3364	Motor Learning ⁸	3
KINE 3373	Physiology of Exercise ⁸	3
Major: Required		
ATTR 3370	Prevention & Care of Injuries ⁸	3
ATTR 4369	Therapeutic Exercise Interventions	3
or KINE 4314	Advanced Strength Training	
KINE 3173	Exercise Physiology Laboratory	1
KINE 4362	Biomechanical Analysis ⁹	3
KINE 4373	Advanced Topics in Physiology of Exercise	3
KINE 4377	Principles of Exercise Testing and Prescription	3
Major: Prescribed Electives ¹¹		3
3+2 MSAT ¹²		
ATTR 5140	Clinical Experiences in Athletic Training IV	1
ATTR 5210	Clinical Experiences in Athletic Training I	2
ATTR 5220	Clinical Experiences in Athletic Training II	2
ATTR 5230	Clinical Experiences in Athletic Training III	2
ATTR 5300	Injury Prevention and Protective Strategies	3
ATTR 5310	Clinical Evaluation and Assessment Fundamentals	3
ATTR 5311 & ATTR 5111	Lower Extremity Injuries and Lower Extremity Injuries Lab	4
ATTR 5312 & ATTR 5112	Upper Extremity Injuries and Upper Extremity Injuries Lab	4
ATTR 5313	Head and Facial Injuries in Sport	3
ATTR 5314	Spine and Pelvis Injuries	3
ATTR 5315	Non-Orthopedic Pathologies in Sport and Exercise	3
ATTR 5321 & ATTR 5121	Prehospital Emergency Medicine and Acute Care and Prehospital Emergency Medicine and Acute Care Lab	4
ATTR 5330 & ATTR 5130	Therapeutic Interventions I and Therapeutic Intervention I Lab	4
ATTR 5331 & ATTR 5131	Therapeutic Interventions II and Therapeutic Intervention II Lab	4
ATTR 5340	Administration in Athletic Training	3
HLTH 5371	Health Care Quality & Safety	3
HLTH 5378	Health Care Informatics	3
KINE 5374	Applied Research Methods in Kinesiology	3
ATTR 5450	Immersive Clinical Experiences in Athletic Training	4
Minor: Not Required ¹³		
Total Hours		153-154

¹ MATH 1314 and MATH 1316 satisfy the Core Curriculum requirement for Component Area II (Mathematics).

² BIOL 1406, BIOL 2403, BIOL 2404, and CHEM 1411 satisfy Core Curriculum requirement for Component Area III (Life and Physical Science). BIOL 1406, BIOL 2403, BIOL 2404, and CHEM 1411 are required prerequisites for the MSAT program and require a grade of "C" or higher.

³ BIOL 1406 is required.

- 4 SOCI 2319 is a recommended (not required) prerequisite for the MSAT program and satisfies Core Curriculum requirement for Component Area IV (Language, a Philosophy, and Culture).
- 5 PSYC 1301 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences). PSYC 1301 is a required prerequisite for the MSAT program and requires a grade of "C" or higher.
- 6 COMS 1361 and KINE 2115 satisfy Core Curriculum requirement for Component Area IX (Component Area Option).
- 7 Must take eight-hour sequence of BIOL 2403 and BIOL 2404, and these courses must be taken early in the degree plan to allow proper sequencing of classes. BIOL 2403 and BIOL 2404 are required prerequisites for the MSAT program and require a grade of "C" or higher.
- 8 ATTR 2300 is a recommended (not required) prerequisite for the MSAT program and includes 50 observation clinical hours. KINE 1331 or ATTR 2300 is a prerequisite for ATTR 3370, KINE 3362, KINE 3364, and KINE 3373.
- 9 KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and all are required prerequisites for the MSAT program and require grades of "C" or higher.
- 10 PSYC 3401 adds one semester credit hour to the degree plan.
- 11 The Prescribed Electives will include courses from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, or PSYC and should be upper level to meet the 42 advanced hour requirement. HLTH 2372, HLTH 3350, HLTH 3360, KINE 4335 are recommended (not required) prerequisites for the MSAT program.
- 12 Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process and be accepted to the MSAT program. In order to apply to the 3+2 MSAT program students must complete all undergraduate degree plan requirements (minimum of 95 semester credit hours) and all admission requirements. Once a student is accepted to the graduate MSAT program, students are eligible to begin the MSAT program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate MSAT program until the 95 semester credit hours are completed.
- MSAT Graduate Catalog (<http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/>)
- BS Kinesiology - Clinical Exercise Science (<http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-clinical-exercise-science/>)
- 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. The following minor cannot be paired with this degree program:
Minor in Kinesiology.

Code	Title	Hours
Undergraduate Course TO Graduate Course Crosswalk		
The courses below are included in the BS in Kinesiology-Clinical Exercise Science degree plan and will be replaced with the following graduate level courses present in the MSAT degree plan:		
ENGL 3330	Introduction to Technical Writing (ATTR 5340 replaces this course)	3
KINE 4375	Kinesiology Research Methods (KINE 5374 replaces this course)	3
KINE 4393	Adult Fitness Management (ATTR 5330 replaces this course)	3
KINE 4394	Internship (ATTR 5210 replaces this course)	3
KINE 4395	Internship II (ATTR 5220 replaces this course)	3
Major: Prescribed Electives		
HLTH 4395	Special Topics in Health (ATTR 5300 replaces this course)	3
KINE 3363	Assessment in Kinesiology (ATTR 5310 replaces this course)	3
KINE 4117	Practicum (ATTR 5121 replaces this course)	1
KINE 4392	Problems in Kinesiology (ATTR 5313 replaces this course)	3
Total Hours		25

Notes

The MSAT program has a minimum GPA requirement of 3.00 or higher for full regular admission. For more specific MSAT admission requirements, please see the Graduate Catalog page (<http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/#admissiontext>) for more information.

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must meet a 2.0 minimum overall major GPA in all major coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students who are preparing to apply to graduate programs should earn a "C" or better in their coursework. All KINE majors and/or minors must earn a "C" or better for all KINE/ATTR courses and all MSAT prospective students must earn a "C" or better in all pre-requisite courses.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence and this should be taken early in the degree program. A grade of C or higher in BIOL 2403 is required for BIOL 2404.

Students should take ATTR 2300 or KINE 1331 early in their sophomore year to prepare for upper-level KINE and ATTR courses.

ATTR 2300 is recommended for MSAT 3+2 prospective students and includes 50 observation clinical hours.

KINE 1331 or ATTR 2300 is a prerequisite for ATTR 3370, KINE 3362, KINE 3364, and KINE 3373.

MATH 1410 or MATH 1316 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101.

CHEM 1411 (<http://catalog.shsu.edu/search/?P=CHEM%201411>), with a "C" or higher, is a prerequisite for CHEM 1412 (<http://catalog.shsu.edu/search/?P=CHEM%201412>).

MATH 3379 (<http://catalog.shsu.edu/search/?P=MATH%203379>) requires 3 hours of college math.

KINE 3362 requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403, and 45+ hours.

KINE 3364 (<http://catalog.shsu.edu/search/?P=KINE%203364>) requires KINE 1331 or ATTR 2300 and 45+ hours.

ATTR 3370 (<http://catalog.shsu.edu/search/?P=ATTR%203370>) requires prerequisites KINE 1331 or ATTR 2300 and BIOL 2403 (<http://catalog.shsu.edu/search/?P=BIOL%202403>) and 45+ hours.

KINE 3373 (<http://catalog.shsu.edu/search/?P=KINE%203373>) requires prerequisites KINE 1331 or ATTR 2300 and BIOL 2403 (<http://catalog.shsu.edu/search/?P=BIOL%202403>) and BIOL 2404 (<http://catalog.shsu.edu/search/?P=BIOL%202404>) and 45+ hours.

KINE 4314 requires prerequisites of KINE 2114, KINE 2115, and KINE 3373 or KINE 3321.

KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and all are required prerequisites for the MSAT program and require grades of "C" or higher.

KINE 4373 (<http://catalog.shsu.edu/search/?P=KINE%204373>) requires a prerequisite of KINE 3373 (<http://catalog.shsu.edu/search/?P=KINE%203373>).

KINE 4377 (<http://catalog.shsu.edu/search/?P=KINE%204377>) requires a prerequisite of KINE 3362 (<http://catalog.shsu.edu/search/?P=KINE%203362>), KINE 3173, and KINE 3373 (<http://catalog.shsu.edu/search/?P=KINE%203373>).

BIOL 4374 (<http://catalog.shsu.edu/search/?P=BIOL%204374>) requires 8 hours of advanced BIOL and MATH 1314 (<http://catalog.shsu.edu/search/?P=MATH%201314>) or MATH 1420 (<http://catalog.shsu.edu/search/?P=MATH%201420>).

First Year

Fall	Hours	Spring	Hours
Component Area IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv) ¹		3 BIOL 2404 ^{2,3}	4
BIOL 2403 ^{2,3}		4 ENGL 1302 ⁴	3
ENGL 1301 ⁴		3 HSTY 1302 ⁵	3
HSTY 1301 ⁵		3 MATH 1316 ⁶	3
MATH 1314 ⁶		3 PSYC 1301 ⁷	3
		16	16

Second Year

Fall	Hours	Spring	Hours
ATTR 2300 or KINE 1331 ⁸		3 CHEM 1411 ²	4
BIOL 1406 ^{2,9}		4 FSCN 2362	3

BIOL 4374, MATH 3379, PSYC 3401, or STAT 3379 ¹⁰		3-4 KINE 3362 ¹²		3	
COMS 1361 ¹¹		3 POLS 2305 ¹³		3	
KINE 2114		1 POLS 2306 ¹³		3	
KINE 2115 ¹¹		1			
		15-16	16		
Third Year					
Fall	Hours	Spring	Hours	Summer	Hours
Component Area V (http:// catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareav)		3 ATTR 4369 or KINE 4314		3 Students who are accepted into the MSAT will follow this degree path; students not accepted will continue with the BS in Kinesiology - Clinical Exercise Science ¹⁵	
ATTR 3370 ⁸		3 KINE 3173		1 ATTR 5300 ¹⁵	3
KINE 3364 ⁸		3 KINE 4362 ¹²		3 ATTR 5310 ¹⁵	3
KINE 3373 ⁸		3 KINE 4373		3 ATTR 5321 ¹⁵	3
PHYS 1301 & PHYS 1101 ¹²		4 KINE 4377		3 ATTR 5121 ¹⁵	1
		Prescribed Electives ¹⁴		3	
		16	16		10
Fourth Year					
Fall	Hours	Spring	Hours	Summer	Hours
ATTR 5111		1 ATTR 5112		1 ATTR 5230	2
ATTR 5130		1 ATTR 5131		1 ATTR 5314	3
ATTR 5210		2 ATTR 5220		2 HLTH 5378	3
ATTR 5311		3 ATTR 5312		3 KINE 5374	3
ATTR 5330		3 ATTR 5313		3	
		ATTR 5331		3	
		10	13		11
Fifth Year					
Fall	Hours	Spring	Hours		
ATTR 5450		4 ATTR 5140		1	
HLTH 5371		3 ATTR 5315		3	
		ATTR 5340		3	
		7	7		

Total Hours: 153-154

¹ SOCI 2319 is a recommended (not required) prerequisite for the MSAT program and satisfies Core Curriculum requirement for Component Area IV (Language, a Philosophy, and Culture).

² BIOL 1406, BIOL 2403, BIOL 2404, and CHEM 1411 satisfy Core Curriculum requirement for Component Area III (Life and Physical Science).

³ BIOL 1406, BIOL 2403, BIOL 2404, and CHEM 1411 are required prerequisites for the MSAT program and require a grade of "C" or higher.

⁴ Must take 8 hour sequence of BIOL 2401 and BIOL 2402 or 8 hour sequence of BIOL 2403 and BIOL 2404, and these courses must be taken early in the degree plan to allow proper sequencing of classes.

⁵ Satisfies the Core Curriculum requirement for Component Area I (Communication).

⁶ Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

⁷ MATH 1314 and MATH 1316 satisfy the Core Curriculum requirement for Component Area II (Mathematics).

⁸ PSYC 1301 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences). PSYC 1301 is a required prerequisite for the MSAT program and requires a grade of "C" or higher.

⁹ ATTR 2300 is recommended for MSAT 3+2 prospective students and includes 50 observation clinical hours. KINE 1331 or ATTR 2300 is a prerequisite for ATTR 3370, KINE 3362, KINE 3364, and KINE 3373.

- BIOL 1406 is required.
- PSYC 3401 will add one semester credit hour to the degree plan.
- COMS 1361 and KINE 2115 satisfy Core Curriculum requirement for Component Area IX (Component Area Option).
- KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and all are required prerequisites for the MSAT program and require grades of "C" or higher.
- Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- The Prescribed Electives will include courses from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, or PSYC and should be upper level to meet the 42 advanced hour requirement. HLTH 2372, HLTH 3350, HLTH 3360, KINE 4335 are recommended (not required) prerequisites for the MSAT program.
- Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process and be accepted to the MSAT program. In order to apply to the 3+2 MSAT program students must complete all undergraduate degree plan requirements (minimum of 95 semester credit hours) and all admission requirements. Once a student is accepted to the graduate MSAT program, students are eligible to begin the MSAT program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate MSAT program until the 95 semester credit hours are completed.
- MSAT Graduate Catalog (<http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/>)
- BS Kinesiology - Clinical Exercise Science (<http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-clinical-exercise-science/>)

Notes

The MSAT program has a minimum GPA requirement of 3.00 or higher for full regular admission. For more specific MSAT admission requirements, please see the Graduate Catalog page (<http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/#admissiontext>) for more information.

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must meet a 2.0 minimum overall major GPA in all major coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

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.

The following minor cannot be paired with this degree program: Minor in Kinesiology.

Students who are preparing to apply to graduate programs should earn a "C" or better in their coursework. All KINE majors and/or minors must earn a "C" or better for all KINE/ATTR courses and all MSAT prospective students must earn a "C" or better in all pre-requisite courses.

Students should take ATTR 2300 or KINE 1331 early in their sophomore year to prepare for upper-level KINE and ATTR courses.

ATTR 2300 is recommended for MSAT 3+2 prospective students and includes 50 observation clinical hours. KINE 1331 or ATTR 2300 is a prerequisite for ATTR 3370, KINE 3362, KINE 3364, and KINE 3373.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence and this should be taken early in the degree program.

MATH 1410 (<http://catalog.shsu.edu/search/?P=MATH%201410>) or MATH 1316 (<http://catalog.shsu.edu/search/?P=MATH%201316>) or MATH 1420 (<http://catalog.shsu.edu/search/?P=MATH%201420>) are prerequisites for PHYS 1301 (<http://catalog.shsu.edu/search/?P=PHYS%201301>) and PHYS 1101 (<http://catalog.shsu.edu/search/?P=PHYS%201101>). A grade of "C" or higher is required for courses.

CHEM 1411 (<http://catalog.shsu.edu/search/?P=CHEM%201411>), with a "C" or higher, is a prerequisite for CHEM 1412 (<http://catalog.shsu.edu/search/?P=CHEM%201412>).

MATH 3379 (<http://catalog.shsu.edu/search/?P=MATH%203379>) requires 3 hours of college math.

BIOL 4374 (<http://catalog.shsu.edu/search/?P=BIOL%204374>) requires 8 hours of advanced BIOL and MATH 1314 (<http://catalog.shsu.edu/search/?P=MATH%201314>) or MATH 1420 (<http://catalog.shsu.edu/search/?P=MATH%201420>).

ATTR 3370 (<http://catalog.shsu.edu/search/?P=ATTR%203370>) requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403 (<http://catalog.shsu.edu/search/?P=BIOL%202403>) and 45+ hours.

KINE 3373 (<http://catalog.shsu.edu/search/?P=KINE%203373>) requires a prerequisites of KINE 1331 or ATTR 2300, BIOL 2403 (<http://catalog.shsu.edu/search/?P=BIOL%202403>) and BIOL 2404 (<http://catalog.shsu.edu/search/?P=BIOL%202404>) and 45 hours.

KINE 336 (<http://catalog.shsu.edu/search/?P=KINE%203364>) requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403, and 45+ hours.

KINE 3364 requires prerequisites of KINE 1331 or ATTR 2300, and 45+ hours.

KINE 4314 requires prerequisites of KINE 2114, KINE 2115, KINE 3362, and KINE 3373.

KINE 4362 (<http://catalog.shsu.edu/search/?P=KINE%204362>) requires a prerequisite of KINE 3362 (<http://catalog.shsu.edu/search/?P=KINE%203362>), PHYS 1301 (<http://catalog.shsu.edu/search/?P=PHYS%201301>) and PHYS 1101 (<http://catalog.shsu.edu/search/?P=PHYS%201101>).

KINE 4377 (<http://catalog.shsu.edu/search/?P=KINE%204377>) requires a prerequisite of KINE 3362 (<http://catalog.shsu.edu/search/?P=KINE%203362>) and KINE 3373 (<http://catalog.shsu.edu/search/?P=KINE%203373>).

KINE 4373 (<http://catalog.shsu.edu/search/?P=KINE%204373>) requires a prerequisite of KINE 3373 (<http://catalog.shsu.edu/search/?P=KINE%203373>).

Program Prerequisites

The following prerequisite coursework is designated as either required or recommended. The required coursework must be satisfactorily completed (a grade of C or better) to be considered for regular admission to the MSAT program. The recommended coursework is optional but completed work in this area may benefit the student in their pursuit of admission to the MSAT program. Recommended prerequisite coursework that is completed at the time of program application will add additional points to the candidate acceptance rubric for the proposed degree.

MSAT Program Required Prerequisite Coursework

The following bachelor's level coursework must be completed prior to applying to the MSAT Program to be considered for full admission. Prerequisite coursework can be in progress when the application is submitted for Conditional Admission. All required coursework must be completed prior to starting the MSAT program and includes:

Code	Title	Hours
SHSU Course Listing: Required Program Prerequisites ¹		
ATTR 2300	Introduction to Athletic Training	3
BIOL 1406 or BIOL 1407	General Biology I General Biology II	4
BIOL 2403	Human Anatomy & Physiology I	4
BIOL 2404	Human Anatomy & Physiology II	4
CHEM 1411 or CHEM 1406	General Chemistry I Inorganic & Environmental Chemistry	4
FSCN 2362	Nutrition	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
STAT 3379 or MATH 3379 or MATH 1342 or MATH 1370 or BIOL 4374	Statistical Methods in Practice Statistical Methods in Practice Elementary Statistics Introduction to Biomedical Statistics Biostatistics	3
PHYS 1301 or KINE 4362	General Physics-Mechanics and Heat Biomechanical Analysis	3
PSYC 1301	Introduction To Psychology	3

¹ Required program prerequisites or equivalent.

MSAT Program Recommended Prerequisite Coursework

The recommended prerequisites for the MSAT are not required for admission to the program but can increase the admission score if completed with a grade of **C or higher**. Students seeking admission to the SHSU MSAT program are encouraged to enroll in these courses if electives are available on a student's undergraduate degree plan.

The following bachelor's level coursework is **recommended** to be completed prior to applying to the MSAT Program:

Code	Title	Hours
SHSU Course Listing: Recommended Program Prerequisites ¹		
ATTR 2300	Introduction to Athletic Training	3

HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 3350	Principles of Public Health	3
HLTH 3360	Epidemiology	3
KINE 4335	Sport and Exercise Psychology	3
KINE 4362	Biomechanical Analysis	3
SOCI 2319	Introduction To Ethnic Studies	3

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): 3+2 MSAT option 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.
- Communicate and collaborate with other healthcare professions.
- Promote healthy lifestyle behaviors to minimize the risk of injury and illness.
- Implement systematic, evidence-based examinations and assessments to determine best care for active patient populations.
- Utilize best practices in immediate and emergency care situations.
- Apply therapeutic interventions, including therapeutic modalities, manual therapies, and therapeutic exercise.
- Integrate best practices of policy development, documentation practices, and basic business practices to promote optimal patient care.