BACHELOR OF SCIENCE, MAJOR IN HEALTH SCIENCES: 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 Health Sciences: 3+2 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 96 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 96 undergraduate semester credit hours are completed.

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. **If a student is not accepted, or does not successfully progress through graduate MSAT coursework, then the student will return to the BS in Health Sciences degree to complete their BS degree.**

Accreditation

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

MSAT Graduate Catalog page (https://shsu-preview.courseleaf.com/undergraduate/colleges-academic-departments/health-sciences/population-health/bs-health-sciences-and-msat-athletic-training/)

BS in Health Sciences Catalog page

Code	Title	Hours
Bachelor of Science, Major in Health Science: 3+2 MSAT		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		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) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2]	4
or BIOL 2401	Human Anatomy	
BIOL 2404	Human Anatomy & Physiology II [2]	4
or BIOL 2402	Human Physiology	
CHEM 1411	General Chemistry I [2]	4
or CHEM 1406	Inorganic & Environmental Chemistry	
KINE 2115	Lifetime Health and Wellness [5]	1
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1370	Introduction to Biomedical Statistics [6]	3
or MATH 3379	Statistical Methods in Practice	
or MATH 1342	Elementary Statistics	
or STAT 3379	Statistical Methods in Practice	

PSYC 1301	Introduction To Psychology [4]	3
PSYC 3374	Development Psychology	3
Major: Foundation (27 Credit Hours) [8]		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers [7]	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 2391	Human Diseases [7]	3
HLTH 3350	Principles of Public Health [7]	3
HLTH 3360	Epidemiology [7]	3
Major: Prescribed Electives		
ATTR 2300	Introduction to Athletic Training	3
ATTR 3370	Prevention & Care of Injuries	3
BIOL 1406	General Biology I	4
or BIOL 2413	General Zoology	
COMS 1361	Public Speaking [5]	3
FSCN 2362	Nutrition	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
MATH 1316	Plane Trigonometry	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I [9]	4
3+2 MSAT [10]		
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
ATTR 5450	Immersive Clinical Experiences in Athletic Training	4
HLTH 5371	Health Care Quality & Safety	3
HLTH 5378	Health Care Informatics	3
KINE 5374	Applied Research Methods in Kinesiology	3
Minor: Not Required [11,12]		
Total Hours		**154-155**

1 Satisfies the Core Curriculum requirement for Component Area II (Mathematics).

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

[3] SOCI 2319 (https://shsu-curr.courseleaf.com/search/?P=SOCI%202319) is recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). SOCI 2319 is a recommended (not required) prerequisite for admission to the MSAT program.

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

[5] COMS 1361 and KINE 2115 satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

[6] MATH 3379, STAT 3379, and MATH 1342 may be used as transfer courses for this requirement: please see a SAM Center advisor for more details.

[7] HLTH 3350, HLTH 3355, and HLTH 3360 require prerequisites of HLTH 1360 and HLTH 2391.

[8] This course will be replaced with graduate level courses in the MSAT. See graduate level MSAT course list below.

[9] Requires a prerequisite of MATH 1316.

[10] 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 96 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. **If a student is not accepted, or does not successfully progress through graduate MSAT coursework, then the student will return to the BS in Health Sciences degree to complete their BS degree.**

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[11] 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.

[12] The following minor cannot be paired with this degree program: Minor in Health.

Code	Title	Hours
The courses below are included in the BS in Health Sciences degree plan and will be replaced with the following graduate level courses present in the MSAT degree plan: [8]		
HLTH 3355	United States Health Care Systems (HLTH 5378 replaces this course) [7]	3
HLTH 4393	Professional Preparation for Health Careers (HLTH 5371 replaces this course)	3
HLTH 4394	Internship Program (ATTR 5210 replaces this course)	3
Electives (3000-level or 4000-level)		
HLTH 4360	Research Methods/Statistics (KINE 5374 replaces this course)	3
HLTH 4392	Problems in Health (ATTR 5321 replaces this course)	3
HLTH 4392	Problems in Health (ATTR 5313 replaces the course)	3
HLTH 4395	Special Topics in Health (ATTR 5300 replaces this course)	3
KINE 3363	Assessment in Kinesiology (ATTR 5310 replaces this course)	3
Total Hours		**24**

Notes

The MSAT program has a minimum GPA requirement of 3.25 or higher. For more specific MSAT admission requirements, please see the Graduate Catalog page.

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Health Sciences degree.

Students must meet a 2.0 minimum overall major GPA in all major coursework to complete the BS in Health Sciences degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Health Sciences degree.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework to complete the BS in Health Sciences degree.

HLTH 3355, HLTH 3361, HLTH 3380, HLTH 3385, HLTH 3392, HLTH 4365, HLTH 4371, HLTH 4375, HLTH 4380, and HLTH 4390requires prerequisites of HLTH 1360 and HLTH 2391.

HLTH 3360 (http://catalog.shsu.edu/search/?P=HLTH%203360) requires a prerequisite of HLTH 1360 and HLTH 2391 and a prerequisite of one of the following: MATH 1342 (http://catalog.shsu.edu/search/?P=MATH%201342), MATH 1370 (http://catalog.shsu.edu/search/?P=MATH%201370), MATH 3379 (http://catalog.shsu.edu/search/?P=MATH%203379), or STAT 3379 (http://catalog.shsu.edu/search/?P=STAT%203379).

HLTH 4387 (http://catalog.shsu.edu/search/?P=HLTH%204387) requires a prerequisite of HLTH 1360 and HLTH 2391 and 55 credit hours completed.

KINE 3362 (http://catalog.shsu.edu/search/?P=KINE%203362) requires a prerequisite of BIOL 2401 (http://catalog.shsu.edu/search/?P=BIOL%202401) or BIOL 2403 (http://catalog.shsu.edu/search/?P=BIOL%202403) and 60 credit hours.

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

HLTH 3350, HLTH 3355, HLTH 3361, HLTH 3380, HLTH 3385, HLTH 3392, HLTH 4365, HLTH 4371, HLTH 4375, HLTH 4380, andHLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391.

First Year

Fall	Hours	Spring	Hours		
Component Area IV[1]		3 CHEM 1411 or 1406[5]		4	
BIOL 2413 or 1406		4 ENGL 1302[2]		3	
ENGL 1301[2]		3 HIST 1302[3]		3	
HIST 1301[3]		3 HLTH 2372		3	
MATH 1314, 1410, or 1420[4]		3-4 MATH 1370, 3379, 1342, or 3379[6]		3	
	16-17			**16**	

Second Year

Fall	Hours	Spring	Hours		
BIOL 2403 or 2401[5]		4 ATTR 2300		3	
HLTH 1360[7]		3 BIOL 2404 or 2402[5]		4	
HLTH 2383		3 KINE 3362		3	
KINE 2115[8]		1 MATH 1316		3	
POLS 2305[9]		3 POLS 2306[9]		3	
PSYC 1301[10]		3			
	17			**16**	

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area V		3 COMS 1361[8]		3 Students who are accepted into the MSAT with follow this degree path; students not accepted will continue with the BS in Health Sciences.[12,13]	
ATTR 3370		3 FSCN 2362[7]		3 ATTR 5300[13]	3
HLTH 2391[7]		3 HLTH 3350		3 ATTR 5310[13]	3
KINE 3373		3 HLTH 3360[7]		3 ATTR 5321[13]	3
PHYS 1301 & PHYS 1101[11]		4 PSYC 3374		3 ATTR 5121[13]	1
	16			**15**	**10**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
ATTR 5210		2 ATTR 5220		2 ATTR 5314	3
ATTR 5311 & ATTR 5111		4 ATTR 5312 & ATTR 5112		4 ATTR 5230	2
ATTR 5330 & ATTR 5130		4 ATTR 5313		3 HLTH 5378	3
		ATTR 5331 & ATTR 5131		4 KINE 5374	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: 154-155

1 SOCI 2319 recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). SOCI 2319 is a recommended (not required) prerequisite for admission to the MSAT program.
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1314 satisfies Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science). BIOL 2403, BIOL 2404, and CHEM 1411 are required prerequisites for the MSAT program and require a grade of "C" or higher.
6 MATH 3379, STAT 3379, and MATH 1342 may be used as transfer courses for this requirement: please see a SAM Center advisor for more details.
7 HLTH 3350, HLTH 3355, and HLTH 3360 require prerequisites of HLTH 1360 and HLTH 2391.
8 COMS 1361 (https://shsu-curr.courseleaf.com/search/?P=COMS%201361) and KINE 2115 (https://shsu-curr.courseleaf.com/search/?P=KINE%202115) satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).
9 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
10 PSYC 1301 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences). PSYC 1301 is a required prerequisite for admission to the MSAT program and requires a grade of "C" or higher.
11 Requires a prerequisite of MATH 1316.
12 This course will be replaced with graduate level courses in the MSAT. See graduate level MSAT course list below.
13 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 98 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. **If a student is not accepted, or does not successfully progress through graduate MSAT coursework, then the student will return to the BS in Health Sciences degree to complete their BS degree.**
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Code	Title	Hours
The courses below are included in the BS in Health Sciences degree plan and will be replaced with the following graduate level courses present in the MSAT degree plan: [12]		
HLTH 3355	United States Health Care Systems (HLTH 5378 replaces this course)	3
HLTH 4393	Professional Preparation for Health Careers (HLTH 5371 replaces this course)	3
HLTH 4394	Internship Program (ATTR 5210 replaces this course)	3
Electives (3000-level or 4000-level)		
HLTH 4360	Research Methods/Statistics (KINE 5374 replaces this course)	3
HLTH 4392	Problems in Health (ATTR 5313 replaces this course)	3
HLTH 4392	Problems in Health (ATTR 5321 replace this course)	3
HLTH 4395	Special Topics in Health (ATTR 5300 replaces this course)	3
KINE 3363	Assessment in Kinesiology (ATTR 5310 replaces this course)	3
Total Hours		**24**

Notes

The MSAT program has a minimum GPA requirement of 3.25 or higher. For more specific MSAT admission requirements, please see the Graduate Catalog page.

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Health Sciences degree.

Students must meet a 2.0 minimum overall major GPA in all major coursework to complete the BS in Health Sciences degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Health Sciences degree.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework to complete the BS in Health Sciences degree.

HLTH 3355, HLTH 3361, HLTH 3380, HLTH 3385, HLTH 3392, HLTH 4365, HLTH 4371, HLTH 4375, HLTH 4380, and HLTH 4390 requires prerequisites of HLTH 1360 and HLTH 2391.

HLTH 3360 (http://catalog.shsu.edu/search/?P=HLTH%203360) requires a prerequisite of HLTH 1360 and HLTH 2391 and a prerequisite of one of the following: MATH 1342 (http://catalog.shsu.edu/search/?P=MATH%201342), MATH 1370 (http://catalog.shsu.edu/search/?P=MATH%201370), MATH 3379 (http://catalog.shsu.edu/search/?P=MATH%203379), or STAT 3379 (http://catalog.shsu.edu/search/?P=STAT%203379).

HLTH 4387 (http://catalog.shsu.edu/search/?P=HLTH%204387) requires a prerequisite of HLTH 1360 and HLTH 2391 and 55 credit hours completed.

KINE 3362 (http://catalog.shsu.edu/search/?P=KINE%203362) requires a prerequisite of BIOL 2401 (http://catalog.shsu.edu/search/?P=BIOL%202401) or BIOL 2403 (http://catalog.shsu.edu/search/?P=BIOL%202403) and 60 credit hours.

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

HLTH 3350, HLTH 3355, HLTH 3361, HLTH 3380, HLTH 3385, HLTH 3392, HLTH 4365, HLTH 4371, HLTH 4375, HLTH 4380, and HLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391.

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 Health.

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 3370	Prevention & Care of Injuries	3
BIOL 1413	General Zoology	4
or BIOL 1411	General Botany	
or BIOL 1406	General Biology I	
or BIOL 1407	General Biology II	
BIOL 2403	Human Anatomy & Physiology I	4
BIOL 2404	Human Anatomy & Physiology II	4
CHEM 1411	General Chemistry I	4
or CHEM 1406	Inorganic & Envir Chemistry	
FSCN 2362	Nutrition	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
MATH 3379	Statistical Mthods in Practice	3
or STAT 3379	Statistical Methds in Practice	
or MATH 1342	Elementary Statistics	
or MATH 1370	Intro Biomedical Statistics	
or BIOL 4374	Biostatistics	
PHYS 1301	General Phy-Mechanics & Heat	3
or KINE 4362	Biomechanical Analysis	
PSYC 1301	Introduction To Psychology	3

1 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 BS in Health Sciences: 3+2 MSAT Option is designed to provide graduates with the following marketable skills:

- Recognize and identify specific health and social needs of diverse populations.
- Make informed decisions relative to the political, economic, social, legal, and ethical issues that influence the health care profession.
- Employ proactive skills and competencies in the areas of preventive health and wellness.
- Analyze data to make good programmatic decisions.
- Synthesize the body systems and their relationship to diseases and disorders as they serve as determinants of health.
- 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.