

# BACHELOR OF SCIENCE, MAJOR IN HEALTH SCIENCES

**Additional information:** Reference the Program Landing Page (<https://www.shsu.edu/programs/bachelor-of-science-in-health-sciences/>) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
<b>Bachelor of Science, Major in Health Sciences</b>		
<b>Core Curriculum</b>		
Component Area I (Communications)		6
Component Area II (Mathematics) <sup>1</sup>		3
Component Area III (Life and Physical Science) <sup>2</sup>		8
Component Area IV (Language, Philosophy, and Culture)		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) <sup>3</sup>		3
Component Area IX (Component Area Option) <sup>4</sup>		4
<b>Degree Specific Requirements</b>		
BIOL 2403	Human Anatomy & Physiology I <sup>2,5</sup>	4
BIOL 2404	Human Anatomy & Physiology II <sup>5</sup>	4
CHEM 1411	General Chemistry I <sup>2</sup>	4
or CHEM 1406	Inorganic & Environmental Chemistry	
KINE 2115	Lifetime Health and Wellness <sup>4</sup>	1
MATH 1314	Pre Calculus Algebra <sup>1</sup>	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1370	Introduction to Biomedical Statistics <sup>6</sup>	3
PSYC 1301	Introduction To Psychology <sup>3</sup>	3
PSYC 3374	Development Psychology	3
<b>Major: Foundation</b>		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers <sup>7</sup>	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 2391	Human Diseases <sup>7</sup>	3
HLTH 3350	Principles of Public Health <sup>7</sup>	3
HLTH 3355	United States Health Care Systems <sup>7,8</sup>	3
HLTH 3360	Epidemiology <sup>7</sup>	3
HLTH 4393	Professional Preparation for Health Careers <sup>7,9</sup>	3
HLTH 4394	Internship Program <sup>7,9</sup>	3
<b>Major: Prescribed Electives OR Undergraduate Certificate in Communication for Health and Social Care Professionals</b> <sup>10</sup>		<b>41</b>
<b>Prescribed Electives</b> <sup>11, 12, 13</sup>		
From the list below, select 41 hours of Prescribed Electives (21 hours must be 3000 or 4000 level). Students may not count more than 20 credit hours of science and math as electives; the remainder must be from outside science and math.		
<b>OR</b>		
<b>Undergraduate Certificate in Communications in Health and Social Care Professionals</b> <sup>14</sup>		
COMS 3375	Strategic Organizational Communication	
COMS 3386	Learning to Listen: A Key Communication Competency	
COMS 3391	Interpersonal Health Communication	
COMS 3392	Risk Communication	
COMS 3393	Environmental Communication	
HLTH 3355	United States Health Care Systems <sup>8</sup>	
<b>Prescribed Electives</b> <sup>14</sup>		
HLTH 3392	Health Communication and Literacy	

AND

23 hours of electives selected from the below Prescribed Electives course list.

**Minor: Not Required**<sup>15,16</sup>**Total Hours****120**

- <sup>1</sup> Satisfies Core Curriculum requirement for Component Area II (Mathematics).
- <sup>2</sup> Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
- <sup>3</sup> Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- <sup>4</sup> Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
- <sup>5</sup> BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
- <sup>6</sup> MATH 1342 or MATH 3379 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
- <sup>7</sup> HLTH 1360 and HLTH 2391 are prerequisites for the following courses: HLTH 3350, HLTH 3355, HLTH 3360, HLTH 3361, HLTH 4117, HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4390, HLTH 4393, and HLTH 4394.
- <sup>8</sup> HLTH 3355 satisfies the requirement for both the Major and the Undergraduate Certificate, if Undergraduate Certificate option is chosen.
- <sup>9</sup> Students must earn a grade of "C" or better in HLTH 4393 and HLTH 4394.
- <sup>10</sup> Students may select from the Undergraduate Certificate in Communication for Health and Social Care Professionals + HLTH 3392 and 23 hours of Prescribed Electives OR 41 hours of Prescribed Electives. Please select from the list of Prescribed Electives and consult with your advisor on appropriate course choices. Please note that HLTH 3355 double dips in both the Major: Foundation and Undergraduate Certificate areas.
- <sup>11</sup> Select 41 hours of **track-specific** requirements not to exceed 20 combined credit hours of science and math. Must complete 42 credit hours of advanced credit (3000-4000).
- <sup>12</sup> Pre-nursing and pre-chiropractic students should take BIOL 2420 or BIOL 3470 Fall of second year.
- <sup>13</sup> Pre-nursing students must take FSCN 2362.
- <sup>14</sup> Select 41 hours of **track specific** requirements **OR** Undergraduate Certificate for Health and Social Care Professionals (18 SCH) + HLTH 3392 and 23 SCH of Prescribed Electives courses, not to exceed 20 combined credit hours of science and math. Must complete 42 credit hours of advanced credit (3000-4000). Please note that HLTH 3355 double dips in both the Major: Foundation and Undergraduate Certificate areas.
- <sup>15</sup> 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.
- <sup>16</sup> The following minor cannot be paired with this degree program: Minor in Health.

Code	Title	Hours
<b>Prescribed Electives</b> <sup>14</sup>		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2411	General Botany	4
BIOL 2413	General Zoology	4
BIOL 2420	Introduction to Applied Microbiology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4350	Immunology	3
BIOL 4360	Genetic Analysis of Human Disease	3
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I	4
COMS 1361	Public Speaking	3
COMS 3391	Interpersonal Health Communication	3
COMS 4386	Family Communication	3
COUN 3321	Introduction to the Helping Relationship	3
COUN 3322	Career Development	3
COUN 3331	Introduction to Principles Of Counseling	3
COUN 3332	Therapeutic Play Skills	3
COUN 4379	Wellness Counseling	3
ECHE 3313	Early Childhood Cognition	3

ENGL 3330	Introduction to Technical Writing	3
FSCN 2362	Nutrition	3
FORS 3420	Human Osteology: Analysis of Human Bone	4
HLTH 1366	Lifestyle and Wellness	3
HLTH 3361	Health Planning & Evaluation <sup>7</sup>	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3382	Child & Adolescent Health	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum <sup>7</sup>	1
HLTH 4365	Health Care Policy <sup>7</sup>	3
HLTH 4367	Economics for Health Managers <sup>7</sup>	3
HLTH 4371	Patient Navigation <sup>7</sup>	3
HLTH 4375	Health Laws and Ethics <sup>7</sup>	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health <sup>7</sup>	3
HLTH 4394	Internship Program	3
KINE 2330	First Aid and CPR - American Red Cross	3
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3367	Lifespan Motor Development	3
KINE 3373	Physiology of Exercise	3
KINE 4362	Biomechanical Analysis	3
MATH 1316	Plane Trigonometry	3
MATH 1420	Calculus I	4
MCPA 4381	Social Marketing for Public Relations and Advertising	3
PHIL 4333	Bioethics	3
PHIL 4371	Death and Dying	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
PSYC 3365	Close Relationships	3
SOCI 1301	Introduction to Sociology	3
SOCI 3341	Marriage And The Family	3
SOCI 3365	Sociology Of Health & Illness	3

### 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.

BIOL 2402 requires a grade of "C" or higher in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" or higher in BIOL 2403.

BIOL 3470 requires the prerequisite of BIOL 2411, BIOL 2413, BIOL 2440, CHEM 1412 .

COMS 4386 requires COMS 2386.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330.

HLTH 3350 , HLTH 3355, and HLTH 4387 require prerequisites of HLTH 1360 and HLTH 2391 and 55 credit hours completed.

HLTH 3360 requires a prerequisite of one of the following: HLTH 1360 and HLTH 2391 and MATH 1342, MATH 1370, MATH 3379, or STAT 3379 .

HLTH 4380 and HLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

HLTH 4393 requires a prerequisite of HLTH 1360 and HLTH 2391 and 12 hours of Health.

HLTH 4394 is the required prerequisite of HLTH 1360 and HLTH 2391 and HLTH 4393 with a C or better.

KINE 3362 requires a prerequisite of BIOL 2401 or BIOL 2403 and 60 credit hours.

MATH 1316 or MATH 1410 or MATH 1420 are prerequisites for PHYS 1101 and PHYS 1301. A grade of "C" or higher is required for courses.

KINE 3362 requires Sophomore standing.

HLTH 3361 requires a prerequisite of HLTH 1360 and HLTH 2391 and 55 hours completed.

HLTH 4117 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

HLTH 4365 requires a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 4367 requires a prerequisite of HLTH 1360, HLTH 2391, HLTH 3350, ECON 2301 or ECON 2302 and Senior Standing.

HLTH 4371 requires a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 4375 requires a prerequisite of HLTH 1360, HLTH 2391, and HLTH 3355.

HLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

**Additional information:** Reference the Program Landing Page (<https://www.shsu.edu/programs/bachelor-of-science-in-health-sciences/>) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

#### First Year

Fall	Hours	Spring	Hours
BIOL 2403 <sup>1,2</sup>		4 BIOL 2404 <sup>2</sup>	4
ENGL 1301 <sup>3</sup>		3 CHEM 1411 or 1406 <sup>1</sup>	4
HIST 1301 <sup>4</sup>		3 KINE 2115 <sup>6</sup>	1
HLTH 1360		3 MATH 1370 <sup>7</sup>	3
MATH 1314, 1410, or 1420 <sup>5</sup>		3 PSYC 1301 <sup>8</sup>	3
		<b>16</b>	<b>15</b>

#### Second Year

Fall	Hours	Spring	Hours
Component Area V <sup>9</sup>		3 Component Area IV <sup>9</sup>	3
Component Area IX <sup>9</sup>		3 HIST 1302 <sup>4</sup>	3
ENGL 1302 <sup>3</sup>		3 HLTH 2372	3
HLTH 2391		3 HLTH 2383	3
POLS 2305 <sup>10</sup>		3 POLS 2306 <sup>10</sup>	3
		<b>15</b>	<b>15</b>

#### Third Year

Fall	Hours	Spring	Hours
HLTH 3350 <sup>11</sup>		3 HLTH 3360 <sup>11</sup>	3
HLTH 3355 <sup>11,12</sup>		3 HLTH 4393 <sup>11,16</sup>	3
PSYC 3374		3 Prescribed Electives or UG Cert Courses <sup>13,14,15</sup>	9
Prescribed Electives or UG Cert Courses <sup>13,14,15</sup>		6	
		<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Hours	Spring	Hours
HLTH 3392		3 HLTH 4394 <sup>16</sup>	3

Prescribed Electives or UG Cert Courses <sup>13,14,15</sup>	12 Prescribed Electives or UG Cert Courses <sup>13,14,15</sup>	11
	<b>15</b>	<b>14</b>

**Total Hours: 120**

- 1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
- 2 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
- 3 Satisfies Core Curriculum requirement for Component Area I (Communications).
- 4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- 5 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
- 6 Satisfies one hour of Core Curriculum requirement for Component Area IX (Component Area Option).
- 7 MATH 1342 or MATH 3379 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
- 8 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- 9 Component Area IV (Language, Philosophy, and Culture), Component Area V (Creative Arts), or Component Area IX (Component Area Option) can be taken to fulfill this requirement.
- 10 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- 11 HLTH 1360 and HLTH 2391 are prerequisites for the following courses: HLTH 3350, HLTH 3355, HLTH 3360, HLTH 3361, HLTH 4117, HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4390, HLTH 4393, and HLTH 4394.
- 12 HLTH 3355 satisfies the requirement for both the Major and the Undergraduate Certificate, if Undergraduate Certificate option is chosen.
- 13 Select 41 hours of track specific requirements **OR** Undergraduate Certificate for Health and Social Care Professionals (18 SCH) + HLTH 3392 and 23 SCH of Prescribed Electives courses, not to exceed 20 combined credit hours of science and math. Must complete 42 credit hours of advanced credit (3000-4000). Please note that HLTH 3355 double dips in both the Major: Foundation and Undergraduate Certificate areas.
- 14 Pre-nursing and pre-chiropractic students should take BIOL 2420 or BIOL 3470 Fall of second year.
- 15 Pre-nursing students must take FSCN 2362.
- 16 Students must earn a grade of "C" or better in HLTH 4393 and HLTH 4394.

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FSCN 2362	Nutrition	3
FORS 3420	Human Osteology: Analysis of Human Bone	4

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HLTH 3361	Health Planning & Evaluation <sup>11</sup>	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3382	Child & Adolescent Health	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum <sup>11</sup>	1
HLTH 4365	Health Care Policy <sup>11</sup>	3
HLTH 4367	Economics for Health Managers <sup>11</sup>	3
HLTH 4371	Patient Navigation <sup>11</sup>	3
HLTH 4375	Health Laws and Ethics <sup>11</sup>	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health <sup>11</sup>	3
HLTH 4394	Internship Program	3
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HLTH 4365 requires a prerequisite of HLTH 1360 and HLTH 2391.

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HLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

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.

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 Health Sciences 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.