

Bachelor of Science, Physics

Department of Physics & Astronomy

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Core Curriculum Requirements	Course Name	Hours	TCCNS	SHSU
Communication (6 hours)	Composition I	3	ENGL 1301	ENGL 1301
	Composition II	3	ENGL 1302	ENGL 1302
Mathematics (3 hours) ¹	Calculus I	4	MATH 2413	MATH 1420
Life & Physical Sciences (6 hours) ²	Choose <u>two</u> courses from your current Texas community college's core approved list. <i>CHEM 1411 & CHEM 1412 are required for the SHSU degree.</i>			
Language, Philosophy, & Culture (3 hours)	Choose <u>one</u> course from your current Texas community college's core approved list.			
Creative Arts (3 hours)	Choose <u>one</u> course from your current Texas community college's core approved list.			
American History (6 hours)	United States History to 1876	3	HIST 1301	HSTY 1301
	United States History since 1876	3	HIST 1302	HSTY 1302
Government/Political Science (6 hours)	American Government	3	GOVT 2305	POLS 2305
	Texas Government	3	GOVT 2306	POLS 2306
Social & Behavioral Science (3 hours)	Choose <u>one</u> course from your current Texas community college's core approved list.			
Component Area Option Recommendations (6 hours) ¹	Choose <u>two</u> courses from your current Texas community college's core approved list.			
Major Requirement or Field of Study	Course Name	Hours	TCCNS	SHSU
Major	Calculus II	4	MATH 2414	MATH 1430
Major	Calculus III	4	MATH 2415	MATH 2440
Major	General Chemistry I w/ lab	4	CHEM 1411	CHEM 1411
Major	General Chemistry II w/ lab	4	CHEM 1412	CHEM 1412
Major	General Biology I OR	4	BIOL 1406	BIOL 1406
	Physical Geology OR		GEOL 1403	GEOL 1403
	Solar System Astronomy		PHYS 1404	PHYS 1404
Major	General Biology II OR	4	BIOL 1407	BIOL 1407
	Historical Geology OR		GEOL 1404	GEOL 1404
	Stars & Galaxies		PHYS 1403	PHYS 1403
Major	Programming Fundamentals	4	COSC 1436	COSC 1436
Major	Introduction to Physics I w/ lab	4	PHYS 2425	PHYS 1411
Major	Introduction to Physics II w/ lab	4	PHYS 2426	PHYS 1422

Courses for required minor

A minor is required for this program. A full list of minors can be found here: [Degrees Offered < Sam Houston State University](#)

*SHSU accepts a maximum of 70 credit hours: 66 academic hours + 4 hours of activity-based physical education (kinesiology) hours. Students must earn a 2.0 minimum overall GPA in all coursework, overall major GPA in all major coursework, SHSU GPA in all coursework, and SHSU major GPA in all major coursework.

A minor is required for this program.

The Physics major degree plan automatically includes enough math hours for a minor in Mathematics.

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

1 - MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Minor requirement.

2 - CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).

Full degree can be found here: [Physics, BS](#)