BACHELOR OF SCIENCE, MAJOR IN COMPUTING SCIENCE (INFORMATION SYSTEMS, IS)

Code	Title	Hours	
Bachelor of Science, Major in Computing Science (Information Systems, IS)			
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		4	
Component Area III (Life and Physic	al Science)	8	
Component Area IV (Language, Phil	osophy, and Culture)	3	
Component Area V (Creative Arts)		3	
Component Area VI (U.S. History)		6	
Component Area VII (Political Scien	ce/Government)	6	
Component Area VIII (Social and Be	havioral Sciences)	3	
Component Area IX (Component Area	ea Option) ¹	3	
Degree Specific Requirements			
MATH 1420	Calculus I 1, 2	4	
MATH 1430	Calculus II	4	
MATH 2395	Discrete Mathematics	3	
Math (Advanced)		3	
STAT 3379	Statistical Methds in Practice	3	
Science (In addition to Component	Area III)	8	
Major: Foundation			
COSC 1436	Programming Fundamentals I	4	
COSC 1437	Programming Fundamentals II	4	
COSC 2329	Comp Organiz & Machine Lang	3	
COSC 3318	Data Base Management Systems	3	
COSC 3319	Data Structures and Algorithms	3	
COSC 4318	Advanced Language Concepts	3	
COSC 4319	Software Engineering	3	
COSC 4349	Professionalism and Ethics	3	
Major: Concentration (Information Systems, 19 hours)			
COSC 2327	Intro to Computer Networks	3	
COSC 2347	Special Topics/Programming	3	
COSC 3337	Infor Sys Design & Management	3	
COSC 4149	Seminar in Computer Science	1	
COSC 4326	Network Theory	3	
Major: Prescribed Electives			
COSC/DFSC Advanced Electives		6	
Electives: Advanced General			
Advanced General Electives		12	
Minor: Not Required ³			
Total Hours		120	

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 Degree Specific requirements.

Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.

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 credit hours may be needed above the degree program's stated total semester credit 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.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area III (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareaiii)		4 Component Area III (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareaiii)	4
COSC 1436		4 COSC 1437	4
ENGL 1301 ¹		3 ENGL 1302 ¹	3
MATH 1420 ^{2, 3}		4 MATH 1430	4
		15	15

Second Year

Fall	Hours	Spring	Hours
Component Area IV (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareaiv)		3 Component Area V (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareav)	3
Component Area VIII (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareaviii)		3 COSC 2329	3
COSC 2347		3 COSC 3318	3
HIST 1301 ⁴		3 HIST 1302 ⁴	3
POLS 2305 ⁵		3 POLS 2306 ⁵	3
		15	15

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Fall	Hours	Spring	Hours
COSC 3319		3 Component Area IX (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareaix)	3
Degree Specific Requirement: Science ⁶		4 COSC 2327	3
Electives (Advanced)		6 COSC 3337	3
MATH 2395		3 Degree Specific Requirement: Science ⁶	4
		STAT 3379	3
		16	16

Fourth Year

Fall	Hours	Spring	Hours
COSC 4318		3 COSC 4319	3
COSC/DFSC Advanced Elective		3 COSC 4349	3
COSC 4326		3 COSC/DFSC Advanced Elective	3
Electives (Advanced)		3 COSC 4149	1

MATH (Advanced)	3 Elective (Advanced)	3
	15	13

Total Hours: 120

- Satisfies Core Curriculum requirement for Component Area I (Communications).
- 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 Degree Specific requirements.
- Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.
- Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- Science beyond Component Area III (Life and Physical Science).

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

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

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 Computing Science (Information Systems, IS) is designed to provide graduates with the following marketable skills:

- · Software design.
- · Database management.
- · Complex problem-solving.
- · Application of theoretical principles to the solution of technological problems.
- · Technical communication.