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

Bachelor of Science, Major in Computing Science (Information Systems, IS)

bachelor of ocience, major	in computing science (information	Systems, io)	
Core Curriculum (catalog.sl	nsu.edu/undergraduate/academic-	policies-procedures/degree-requirements-academic-guidelines/core-curriculum)	
Component Area I (Commu	nication)		6
Component Area II (Mathematics)			3
Component Area III (Life and Physical Science)			8
Component Area IV (Language, Philosophy, and Culture)			3
Component Area V (Creativ	e Arts)		3
Component Area VI (U.S. History)			6
Component Area VII (Political Science/Government)			6
Component Area VIII (Social and Behavioral Sciences)			3
Component Area IX (Component Area Option)			4
Degree Specific Requireme	nts		
Electives (Advanced)			12
MATH 1420	Calculus I ¹		4
MATH 1430	Calculus II		4
MATH 2395	Discrete Mathematics		3
MATH (Advanced)			3
STAT 3379	Statistical Methds In Pra	ctice	3
Science (In addition to Com	ponent Area III)		8
Total Hours			79

The Computing Science major requires a total of 44 hours of Computer Science coursework, which includes 26 hours of CS required courses and 18 hours of coursework within one of three concentrations. General degree requirements must also be met. The 44 hours of coursework for the Computer Science major should be distributed as follows (Note: CSTE courses may not be used to meet this requirement):

Code	Title	Hours
Required Courses		
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
Total Hours		26

Information Systems Concentration COSC 2327 Intro to Computer Networks 3 Special Topics/Programming 3 COSC 2347 3 COSC 3337 Infor Sys Design & Management 3 COSC 4326 Network Theory Advanced COSC/DFSC Electives 6 18

Total Hours

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 Degree Specific requirements.

2 8 hours of science satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

Note

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.

	15	13
MATH (Advanced)	3 Elective	1
Electives (Advanced)	3 Elective (Advanced)	3
COSC/DFSC Advanced Elective	3 COSC/DFSC Advanced Elective	3
COSC 4327	3 COSC 4349	3
COSC 4318	3 COSC 4319	3
Fourth Year Fall	Hours Spring	Hours
	16	16
	3 Degree Specific Requirement: Science STAT 3379	4
Electives (Advanced) MATH 2395	6 COSC 3337 3 Degree Specific Requirement: Science ⁵	3
Degree Specific Requirement: Science ⁵	4 COSC 2327	3
Degree Specific Deguizement: Science ⁵	academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareaix)	
COSC 3319	3 Component Area IX (catalog.shsu.edu/undergraduate/	3
Fall	Hours Spring	Hours
Third Year	15	15
POLS 2305 ⁴	3 POLS 2306 ⁴	3
HIST 1301 ³	3 HIST 1302 ³	3
COSC 2347	3 COSC 3318	3
Component Area VIII (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareaviii)	3 COSC 2329	3
academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareaiv)	academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareav)	
Component Area IV (catalog.shsu.edu/undergraduate/	3 Component Area V (catalog.shsu.edu/undergraduate/	3
Second Year Fall	Hours Spring	Hours
	15	15
MATH 1420 ²	4 MATH 1430	4
ENGL 1301 ¹	3 ENGL 1302 ¹	3
academic-guidelines/core-curriculum/#componentareaiii) COSC 1436	academic-guidelines/core-curriculum/#componentareaiii) 4 COSC 1437	4
Fall Component Area III (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements-	Hours Spring 4 Component Area III (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements-	Hours 4

Total Hours: 120

¹ Satisfies Core Curriculum requirement for Component Area I (Communications).

² Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

³ Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

⁴ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

⁵ Science beyond Component Area III (Life and Physical Science).