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

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

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Core Curriculum (catalog.s	shsu.edu/undergraduate/academic-p	olicies-procedures/degree-requirements-academic-guidelines/core-curriculum)	
Component Area I (Comm	unication)		6
Component Area II (Mathe	matics)		3
Component Area III (Life a	nd Physical Science)		8
Component Area IV (Langu	age, Philosophy, and Culture)		3
Component Area V (Creati	ve Arts)		3
Component Area VI (U.S. H	listory)		6
Component Area VII (Politi	cal Science/Government)		6
Component Area VIII (Soci	al and Behavioral Sciences)		3
Component Area IX (Comp	onent Area Option)		4
Degree Specific Requirem	ents		
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 Prac	tice	3
Science (In addition to Cor	nponent 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 C0SC 2327 Intro to Computer Networks C0SC 2347 Special Topics/Programming C0SC 3337 Infor Sys Design & Management C0SC 4326 Network Theory Advanced COSC/DFSC Electives Very

Total Hours

¹ MATH 1420 satisfies the requirement for Component Area II and one hour of Component Area IX, and the degree specific requirements.

² 8 hours of science satisfies the requirement for Component Area III 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.

First Year		
Fall	Hours Spring	Hour
COSC 1436	4 COSC 1437	
MATH 1420 ¹	4 MATH 1430	4
ENGL 1301 ²	3 ENGL 1302 ²	;
Component Area III (catalog.shsu.edu/undergraduate/	4 Component Area III (catalog.shsu.edu/undergraduate/	4
academic-policies-procedures/degree-requirements-	academic-policies-procedures/degree-requirements-	
academic-guidelines/core-curriculum/#componentareaiii)	academic-guidelines/core-curriculum/#componentareaiii)	
	15	15
Second Year		
Fall	Hours Spring	Hours
COSC 2347	3 COSC 2329	3
HIST 1301 ³	3 COSC 3318	3
POLS 2305 ⁴	3 HIST 1302 ³	;
Component Area IV (catalog.shsu.edu/undergraduate/	3 POLS 2306 ⁴	4
academic-policies-procedures/degree-requirements-		
academic-guidelines/core-curriculum/#componentareaiv)		
Component Area VIII (catalog.shsu.edu/undergraduate/	3 Component Area V (catalog.shsu.edu/undergraduate/	:
academic-policies-procedures/degree-requirements-	academic-policies-procedures/degree-requirements-	
academic-guidelines/core-curriculum/#componentareaviii)	academic-guidelines/core-curriculum/#componentareav)	
	15	18
Third Year		
Fall	Hours Spring	Hours
COSC 3319	3 COSC 2327	3
MATH 2395	3 COSC 3337	3
Science beyond Component Area III (Degree Specific	4 STAT 3379	3
Requirement)		
ADV Electives	6 Science beyond Component Area III (Degree Specific Requirement)	4
	Component Area IX (catalog.shsu.edu/undergraduate/	;
	academic-policies-procedures/degree-requirements-	
	academic-guidelines/core-curriculum/#componentareaix)	
	16	10
Fourth Year		
Fall	Hours Spring	Hours
COSC 4318	3 COSC 4319	3
COSC 4327	3 COSC 4349	3
ADV COSC/DFSC Elective	3 ADV COSC/DFSC Elective	;
ADV MATH	3 ADV Elective	3
ADV Electives	3 Elective	-
	15	13

Total Hours: 120

¹ Satisfies Core Component Area II and one hour of Core Component Area IX.

² Satisfies Core Component Area I.

³ Satisfies Core Component Area VI.

⁴ Satisfies Core Component Area VII.