

BACHELOR OF SCIENCE, MAJOR IN COMPUTING SCIENCE (COMPUTING SCIENCE, CS)

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Computing Science, CS)		
Core Curriculum (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum)		
Component Area I (Communications)		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 (Creative 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 Specifics Requirements		
General Advanced Electives		12
MATH 1420	Calculus I ^{1,2}	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
Math (Advanced)		3
STAT 3379	Statistical Methods in Practice	3
Science (In addition to Component Area III)		8
Total Hours		75

The Computing Science major requires a total of 44 to 48 hours of Computer Science coursework, depending on concentration, which includes 26 hours of CS required courses and 19 to 22 hours of coursework, depending on concentration. General degree requirements must also be met. The 44 to 48 hours of coursework for the Computing 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

Code	Title	Hours
Computing Science Concentration (18 hours)		
COSC 2347	Special Topics/Programming	3
COSC 3327	Computer Architecture	3
COSC 4316	Compiler Design & Construction	3
COSC 4327	Computer Operating Systems	3
COSC/DFSC Advanced electives		6
1 hour of general elective		1
Total Hours		19

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- ¹ MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.
- ² Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.

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	Hours
Component Area III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)	4 Component Area III (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	4 MATH 1430	4
	15	15

Second Year

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

Third Year

Fall	Hours Spring	Hours
COSC 3319	3 Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	3
Degree Specific Requirement: Science ⁵	4 COSC 3327	3
MATH 2395	3 COSC 4327	3
General Advanced Electives	6 Degree Specific Requirement: Science ⁵	4
	STAT 3379	3
	16	16

Fourth Year

Fall	Hours Spring	Hours
COSC 4318	3 COSC 4319	3
COSC 4316	3 COSC 4349	3
COSC/DFSC Advanced Elective	3 COSC/DFSC Advanced Elective	3
MATH (Advanced)	3 General Advanced Elective	3
General Advanced Elective	3 General Elective	1
	15	13

Total Hours: 120

- ¹ Satisfies Core Curriculum requirement for Component Area I (Communications).
- ² Satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.
- ³ Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- ⁴ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

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.