

BACHELOR OF SCIENCE, MAJOR IN COMPUTER SOFTWARE ENGINEERING TECHNOLOGY

Bachelor of Science, Major in Computer Software Engineering Technology

Core Curriculum (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum)

Component Area I (Communication)		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 Specific Requirements		
MATH 1420	Calculus I ¹	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH 3379	Statistical Mthods In Practice	3
3 ADV MATH hours		3
Major		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2327	Intro to Computer Networks	3
COSC 2329	Comp Organiz & Machine Lang	3
COSC 3312	Numerical Methods	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 3321	Digital System Design	3
COSC 3327	Computer Architecture	3
COSC 4314	Data Mining	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4320	System Modeling and Simulation	3
COSC 4332	Computer Graphics	3
COSC 4340	Spc Tpcs In Computer Sci	3
COSC 4349	Professionalism and Ethics	3
Electives		
COSC Electives ²		6
General Electives ²		9
Total Hours		120

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

² Electives should be used to meet the 42 advanced hour requirement.

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/#componentareav)	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 3312	3
COSC 2329	3 COSC 3318	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
Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	3 COSC 3327	3
COSC 2327	3 COSC 4314	3
COSC 3319	3 COSC 4318	3
COSC 3321	3 Elective (Advanced)	3
MATH 2395	3 MATH 3379	3
	15	15
Fourth Year		
Fall	Hours Spring	Hours
COSC 4319	3 COSC 4340	3
COSC 4320	3 COSC 4349	3
COSC 4332	3 COSC/DFSC Advanced Elective	3
Elective (Advanced)	3 COSC/DFSC Elective	3
MATH (Advanced)	3 Elective (Advanced)	3
	15	15

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).