

BACHELOR OF SCIENCE, MAJOR IN DIGITAL AND CYBER FORENSIC ENGINEERING TECHNOLOGY

Code	Title	Hours
Bachelor of Science, Major in Digital and Cyber Forensic Engineering Technology		
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 Specific Requirements:		
MATH 1420	Calculus I ^{1, 2}	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH 3379	Statistical Mthods in Practice	3
Required Major Courses:		
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 4314	Data Mining	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
DFSC 1316	DF and IA Fundamentals I	3
DFSC 2316	DF and IA Fundamentals II	3
DFSC 2320	Hardware Forensics	3
DFSC 3316	Cryptography and Network Scrtcy	3
DFSC 4317	Information Security	3
DFSC 4318	Malware	3
DFSC 4338	Cyber Warfare	3
Prescribed Electives Choose 2 of the following:		
COSC 3327	Computer Architecture	3
COSC 3331	Human-Computer Interaction	3
COSC 4318	Advanced Language Concepts	3
COSC 4326	Network Theory	3
COSC 4327	Computer Operating Systems	3
COSC 4332	Computer Graphics	3
COSC 4337	Digital Signal Processing	3
COSC 4340	Spc Tpcs in Computer Sci	3
DFSC 4319	Principles of Data Quality	3

Electives		6
Total Hours		120
¹	MATH 1420 satisfies the requirement for Component Area II (Mathematics) and 1 semester credit hour for Component Area IX (Component Area Option) as well as the major.	
²	Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.	
First Year		
Fall	Hours Spring	Hours
Component Area I (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)	3 Component Area I (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)	3
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
Component Area VI (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3 Component Area VI (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3
MATH 1420 ^{1,2}	4 MATH 1430	4
	14	14
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 VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	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
Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3 Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	3
COSC 1436	4 COSC 1437	4
MATH 2395	3 MATH 3379	3
	16	16
Third Year		
Fall	Hours Spring	Hours
COSC 2327	3 COSC 3318	3
COSC 2329	3 DFSC 2316	3
COSC 3312	3 DFSC 2320	3
DFSC 1316	3 DFSC 3316	3
Elective	3 Elective	3
	15	15
Fourth Year		
Fall	Hours Spring	Hours
Prescribed Elective ³	3 Prescribed Elective ³	3
DFSC 4317	3 COSC 4319	3
COSC 4314	3 COSC 4349	3
COSC 3321	3 DFSC 4318	3
COSC 3319	3 DFSC 4338	3
	15	15
Total Hours: 120		

¹ MATH 1420 satisfies the requirement for Component Area II (Mathematics) and 1 semester credit hour for Component Area IX (Component Area Option) as well as the major.

- 2 Students who are not eligible for enrollment in MATH 1420 (catalog.shsu.edu/archives/2019-2020/search/?P=MATH%201420) will have additional mathematics requirements.
- 3 Choose 1 of the following Prescribed Electives: COSC 3327, COSC 3331, COSC 4337, COSC 4318, COSC 4326, COSC 4327, COSC 4332, COSC 4340, or DFSC 4319.