

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

## Bachelor of Science, Major in Digital and Cyber Forensic Engineering Technology

<b>Core Curriculum</b>		
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
<b>Degree Specific Requirements:</b>		
MATH 1420	Calculus I <sup>1</sup>	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH 3379	Statistical Mthods In Practice	3
<b>Required Major Courses:</b>		
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 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 Scrty	3
DFSC 4317	Information Security	3
DFSC 4318	Malware	3
DFSC 4338	Cyber Warfare	3
<b>Prescirbed Electives Choose 2 of the following:</b>		
COSC 3327	Computer Architecture	
COSC 3331	Human-Computer Interaction	
COSC 4318	Advanced Language Concepts	
COSC 4326	Network Theory	
COSC 4327	Computer Operating Systems	
COSC 4332	Computer Graphics	
COSC 4337	Digital Signal Processing	
COSC 4340	Spc Tpcs In Computer Sci	
DFSC 4319	Principles of Data Quality	
<b>Electives</b>		<b>6</b>
<b>Total Hours</b>		<b>121</b>

<sup>1</sup> MATH 1420 satisfies requirement for Component Area II (Mathematics) as well as the major.

**First Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
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	3 Component Area VI (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3
MATH 1420 <sup>1</sup>	4 MATH 1430	4
	14	14

**Second Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
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**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	1 COSC 3318	3
COSC 2327	3 DFSC 2316	3
COSC 2329	3 DFSC 2320	3
COSC 3312	3 DFSC 3316	3
DFSC 1316	3 Elective	3
Elective	3	
	16	15

**Fourth Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Prescribed Elective <sup>2</sup>	3 Prescribed Elective <sup>2</sup>	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: 121

<sup>1</sup> MATH 1420 satisfies requirement for Component Area II (Mathematics) as well as the major.

<sup>2</sup> 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.