

**CURRICULUM LEADING TO THE DEGREE OF
BACHELOR OF SCIENCE IN CYBERSECURITY
BS in CSY
(125 Credits)**

FRESHMEN YEAR

First Semester			Second Semester	
<i>Course Name</i>	<i>Credits</i>		<i>Course Name</i>	<i>Credits</i>
CS 151 Intro to CS	3		CS 160 Programming I	4
Fill in Science Option	4		E 151 English Comp	3
M 158 Calculus I	4		S150/S250/ET250	3
E 150 English Comp	3		CSY 165 Intro Cybersecurity	3
Univ 101	2		PE 150/HED 151/MS 150	2
	16			15

SOPHOMORE YEAR

Third Semester			Fourth Semester	
<i>Course Name</i>	<i>Credits</i>		<i>Course Name</i>	<i>Credits</i>
CS 170 Programming II	4		CSY 275 System Administration and Security	3
H 250/H 251 World Civ.	3		HHU 250 Cultural Analysis	3
E 250/E 251 World Literature	3		SOC 250/PSY 250/EPsy 250	3
CSY 265 Computer Forensics	3		CS 280 Data Structures	3
M 215 Logic, Sets and Proofs	3		M 208 Introduction to Statistics	3
	16			15

JUNIOR YEAR

Fifth Semester			Sixth Semester	
<i>Course Name</i>	<i>Credits</i>		<i>Course Name</i>	<i>Credits</i>
CS 300 Computer Logic	3		ECON 250/ECON 255/ET 255	3
CS 318 Programming Languages	3		CS 304 Computer Organization	3
MU 250/ARTS 250/D 254	3		CS 320 Algorithm Analysis	3
P 254 General Physics I	3		M 315 Discrete Mathematics	3
P 251 General Physics I Lab	1		CSY 365 Intro. To Vuln. Ana & Pen Testing	3
CSY 345 - Cyber Elective 1 (CPS & IOT Security, Ethical Hacking, Human Computer Interface)	3			
	16			15

SENIOR YEAR

Seventh Semester			Eighth Semester	
<i>Course Name</i>	<i>Credits</i>		<i>Course Name</i>	<i>Credits</i>
CS 401 Operating Systems	3		CS 405 Software Engineering	3
CS 420 Computer Networks	3		CSY 475 Appl. & Data Sec. with Privacy	3
CS 411 Data Base Management	3		CSY 485 Cryptography and Network Security	3
CSY 435 Management of Info. Sec.	3		CSY 455 Human Aspects of Cybersecurity	1
CSY 459 Senior Project Proposal	1		CSY 460 Senior Project	3
CSY 445 - Cyber Elective 2 (Security Analytics, AI and ML, Secure/Agile Software Development)	3		CSU 465 - Cyber Elective 3 (Malware Analysis, Cryptography, Web Security)	3
	16			16
Science Option - (B150&B154) OR (B151&B152) OR (C150&C151) OR (C152&C153)				