

B.S. in Computer and Cyber Security Engineering Curriculum Sheet (Total Credits : 133-134)							
Name:				CWID:			
PIN:							
First Semester		Term Taken	Grade	Second Semester		Term Taken	Grade
ECE 100 Intro to the Profession I	3			MATH 152 Calculus II	5		
MATH 151 Calculus I	5			PHYS 123 Physics I: Mechanics	4		
CHEM 122 Chemistry I w/o Lab	3			CS 116 Object-Oriented Programming II	2		
CS 115 Object-Oriented Programming I	2			Social Sciences Elective	3		
Humanities (200-level)	3			ECE 222 Introduction to Cybersecurity Eng.	3		
TOTAL	16			TOTAL	17		
Third Semester		Term Taken	Grade	Fourth Semester		Term Taken	Grade
MATH 252 Intro to Differential Equations	4			MATH 251 Multivariate & Vector Calc.	4		
PHYS 221 Physics II: Electr. & Magnetism	4			ITMS 478 Cybersecurity Management	3		
ECE 211 Circuit Analysis I	3			ECE 213 Circuit Analysis II	4		
ECE 218 Digital systems	4			ECE 242 Digital Compt. & Computing	3		
CS 331 Data Structures & Algorithm	3			CS 330 Discrete Structures	3		
TOTAL	18			TOTAL	17		
Fifth Semester		Term Taken	Grade	Sixth Semester		Term Taken	Grade
ECE 308 Signals & Systems	3			CS 450 Operating Systems	3		
ECE 311 Engineering Electronics	4			ECE 407 Intro to Computer Networks w/Lab	4		
CS 351 Systems Programming	3			MATH 374 Probability/Stat. for ECE	3		
ECE 443 Intro.to Computer Cyber Security	3			IPro Elective I	3		
Humanities Elective (300+)	3			Social Sciences Elective (300+)	3		
TOTAL	16			TOTAL	16		
Seventh Semester		Term Taken	Grade	Eighth Semester		Term Taken	Grade
Cybersecurity Software Eng. Elective ¹	3			ECE 441 Smart & Connected Emb. Sys. ³	4		
ECE 485 Comp. Arch. & Org.	3			Cybersecurity Technical Elective ⁴	3		
Cybersecurity Math Elective ²	3			ECE 444 Computer Network Security	3		
IPro Elective II	3			Cyber Security Law Elective ⁵	2-3		
Additional Hum. or Soc. Sci. Elective	3			Social Sciences Elective (300+)	3		
Humanities Elective (300+)	3						
TOTAL	18			TOTAL	15-16		
<p>[1] Cybersecurity Software Engineering Elective: Choose from the following courses: ECE 448, ECE 449, ECE 473, and ECE 474</p> <p>[2] Cybersecurity Math Elective: Choose from the following courses: MATH 333, MATH 350, MATH 410 or MATH 454</p> <p>[3] Major Design Experience (M) course</p> <p>[4] Cybersecurity Technical Elective: Choose from the following courses: ECE 497, ECE 586, ITMS428 or ITMS 446. ECE 497 Special Problems project needs to cover a Cybersecurity related topic.</p> <p>[5] Cybersecurity Law Elective: Choose from the following courses: LAW 252, LAW 285, LAW 295, LAW379 or LAW 478</p>							
Math & Science	35 credit hours						
Engineering	47 credit hours Engineering only						