BS in Cyber Operations Engineering: Sample 4-Year Plan

Freshman Year

First semester	Credit	Second Semester	Credit
COSC 112 Computer Science I	4	COSC 113 Computer Science II	4
MATH 225 Calculus 1	4	MATH 226 Calculus II	4
ENGL 101 Expository Writing	3	ENGL 102 Argument and Research	3
FRSE 101 Freshman Seminar	3	HIST 114 or 115 African American History	3
		COMM 101 Oral Communication	3
Total:	14	*Total:*	17

Sophomore Year

First semester	Credit	Second Semester	Credit
COSC 208 Discrete Structures	3	COSC 245 Cybersecurity Fundamentals	3
COSC 214 Data Structures and Algorithms	4	MATH 228 Linear Algebra	3
COSC 212 Assembly Language Programming	3	BIOL 102 Introductory Biology (Life Science)	4
MATH 155 Probability and Statistics	3	COSC 215 Introduction to Programmable Logic	3
Social /Behavioral Science Gen Ed Elective	3	Health and Wellness Elective	3
Total:	16	*Total:*	16

Junior Year

First semester	Credit	Second Semester	Credit
COSC 315 Introduction to Microcontrollers	3	COSC 414 Operating Systems	3
COSC 332 Software Reverse Engineering	3	COSC 465 Software Engineering	3
CHEM 107 General Chemistry 1 (Physical Science)	4	COSC 410 Data Communications and Networks	3
COSC 335 Social Engineering	3	Arts and Humanities Gen Ed Elective	3
ENGL 362 Technical Writing for Computer Science	3	COSC 442 Cybersecurity and Society	3
Total:	16	*Total:*	15

Senior Year

First semester	Credit	Second Semester	Credit
COSC 402 Software and System Security	3	COSC 484 Cellular and Mobile Networks	3
COSC 415 Embedded Systems and SCADA Systems	3	MATH 499	2
COSC 435 Foundations of Computer and Network Security	3	MATH 305 Prelude to Advanced MATH OR MATH 252 OR MATH 265	3
Cyber Operations Elective	3	Cyber Operations Elective	3
		Cyber Operations Elective	3
Total:	12	*Total:*	14