

## BS in Computer Science with Cybersecurity Focus: 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 I	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
<b>Total:</b>	<b>14</b>	<b>Total:</b>	<b>17</b>

### Sophomore Year

First semester	Credit	Second Semester	Credit
COSC 208 Discrete Structures	3	COSC 284 Computer Architecture & Org	3
COSC 214 Data Structures and Algorithms	4	MATH 228 Linear Algebra	3
MATH 155 Probability and Statistics	3	BIOL 102 Introductory Biology (Life Science)	4
Social /Behavioral Science Gen Ed Elective	3	Arts and Humanities Gen Ed Elective	3
COSC 245 Cybersecurity Fundamentals	3	Health and Wellness Elective	3
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>16</b>

### Junior Year

First semester	Credit	Second Semester	Credit
COSC 330 Systems Programming 1	3	COSC 414 Operating Systems	3
COSC 350 Programming Languages	3	COSC 428 Design and Analysis of Algorithms	3
CHEM 107 General Chemistry 1 (Physical Science)	4	COSC 431 Database Management Systems	3
COSC 410 Data Communications and Networks	3	ENGL 362 Technical Writing for Computer Science	3
		COSC 435 Foundations of Computer and Network Security	3
<b>Total:</b>	<b>13</b>	<b>Total:</b>	<b>15</b>

### Senior Year

First semester	Credit	Second Semester	Credit
COSC 465 Software Engineering	3	COSC 370 Computer Ethics, Social, and Legal Issues	3
COSC 495 Senior Seminar	3	COSC 480 Senior Capstone	3
COSC 402 Software Security and Operating System	3	COSC 489 Ethical Hacking/ COSC 488 Cyber Operations	3
COSC 430 Systems Programming II	3	COSC Cyber Security Elective	3
COSC Cybersecurity Elective	3	Free Elective	2
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>13</b>