

**Curriculum Outline: B.S. in Cyber Security - Computer Science Track (Fall 2020)**  
**[CYS]**

<b>Freshman Year</b>			
<b>Fall</b>	<b>Cr</b>	<b>Spring</b>	<b>Cr</b>
MAT 130 – Calculus (*)	3		
CSC 151 – Computer Programming I (**)	4	CSC 152 – Computer Programming II	3
ENG 101 – Written Communication I	3	ENG 102 – Written Communication II	3
HIS 106 – World Civil II	3	CSC 120 – Introduction to Computers	3
HEA 200 – Health Education (or 2 PE)	2	BIO 103 – General Biology	4
UNI 101 – The Individual and Life	1	COM 103 – Oral Communication	3
	<b>16</b>		<b>16</b>
<b>Sophomore Year</b>			
<b>Fall</b>	<b>Cr</b>	<b>Spring</b>	<b>Cr</b>
CSC 204 – Architecture I	3	CSC 205 – Architecture II	3
CSC 251 – Data Structure I	3	CSC 252 – Data Structure II	3
CSC 215 – Discrete Structure	3	SOC 215– Introduction to Criminology	3
SOC 205 – Sociology	3	PSY 203 – Intro to Psychology	3
HUM 201 – Humanity I	3	SCI 104 – Intro to Physical Science	4
	<b>15</b>		<b>16</b>
<b>Junior Year</b>			
<b>Fall</b>	<b>Cr</b>	<b>Spring</b>	<b>Cr</b>
MAT 205 – Intro to Stats	3	CSC 308 – Programming Languages	3
CSC 301 – Operating System	3	CSC 570 – Database Management	3
CYS 382 – Intro to Cyber Security	3	CYS 323 – Ethics, Law and Policy in Cyberspace	3
CRJ 409 – Criminalists Cyber Crime	3	CYS 485 – Risk Management	3
ENG 218 – Technical Written Comm.	3	CRJ 305 – Criminal Justice System	3
	<b>15</b>		<b>15</b>
<b>Senior Year</b>			
<b>Fall</b>	<b>Cr</b>	<b>Spring</b>	<b>Cr</b>
CSC 404 – Software Design I / Senior Capstone	3	CSC 405 – Software Design II / Senior Capstone	3
CSC 425 – Senior Seminar	3	CYS 470 – Computer Forensics and Incident Handling	3
CSC 571 – Communication Networks	3	CRJ 416 – Terrorism and National Security	3
CYS 475 – Computer Viruses and Malicious Software	3	CYS/CSC Advanced Elective	3
CRJ 411 – Homeland Security	3		
	<b>15</b>		<b>12</b>

**Total: 120 Credit Hours**

(\*) **MAT 130** Any student not qualifying for MAT 130 (Calculus) must start at the appropriate level of mathematics.

(\*\*) **CSC 151** You need to be in at least MAT 117 or higher to take CSC 151.