

*Bachelor of Science, Information Systems & Technology*  
**CYBER SECURITY CONCENTRATION**  
 4- Year Roadmap

Year 1: Freshman (0 - 29.9 units earned)			
Fall Semester		Spring Semester	
Course	Units	Course	Units
<input type="checkbox"/> (GE) A2 - ENG - English	3	<input type="checkbox"/> (GE) B4 - <b>MATH 1301</b>	3
<input type="checkbox"/> (GE) A3 - Critical Thinking	3	<input type="checkbox"/> <b>IST 1110</b> - Intro to Information Tech.	1
<input type="checkbox"/> <b>ADMN 2100</b> - Applied Bus. Statistics	3	<input type="checkbox"/> (GE) B2 - Life Science	3
<input type="checkbox"/> (GE) E - Foundation Seminar	3	<input type="checkbox"/> (GE) A1 - <b>COMM 1006</b>	3
<input type="checkbox"/> (GE) C2 - Humanities	3	<input type="checkbox"/> (GE) C1 - Arts	3
<input type="checkbox"/> (GE) B3 - Lab/Activity	1	<input type="checkbox"/> (GE) D2 - U.S. History	3
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>16</b>

Year 2: Sophomore (30 - 59.9 units earned)			
Fall Semester		Spring Semester	
Course	Units	Course	Units
<input type="checkbox"/> (GE) C3 - C1 or C2 - Arts/Humanities	3	<input type="checkbox"/> (GE) D1 - <b>PSCI 2030</b>	3
<input type="checkbox"/> <b>IST 2210</b> - Computer Networks & Sec.	3	<input type="checkbox"/> <b>IST 2310</b> - Applications Development	3
<input type="checkbox"/> (GE) D3 - Social Science Discipline Persp.	3	<input type="checkbox"/> <b>IST 2410</b> - Database Mgmt. for Business	3
<input type="checkbox"/> <b>MGMT 2300</b> - Legal Environment of Bus.	3	<input type="checkbox"/> (GE) D2 - U.S. History	3
<input type="checkbox"/> (GE) B1 - Physical Science	3	<input type="checkbox"/> <b>IST 2510</b> - Big Data Analysis	3
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>

Year 3: Junior (60 - 89.9 units earned)			
Fall Semester		Spring Semester	
Course	Units	Course	Units
<input type="checkbox"/> <b>IST 2510</b> - Big Data Analysis	3	<input type="checkbox"/> <b>IST 5250</b> - Incident Handling & Cyber Investigation	3
<input type="checkbox"/> <b>IST 3110</b> - Mgmt. of Information Tech.	3	<input type="checkbox"/> JHBC 3000-5000 level course	3
<input type="checkbox"/> <b>IST 4610</b> - Cybersecurity Managemet	3	<input type="checkbox"/> <b>IST 5150</b> - Project Management	3
<input type="checkbox"/> (GE) C4 - UD Arts or Humanities	3	<input type="checkbox"/> Free Elective Course	3
<input type="checkbox"/> <b>MGMT 3500</b> - Applied Communication	3	<input type="checkbox"/> Concentration Elective Course	3
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>

Year 4: Senior (90 - 120 units earned)			
Fall Semester		Spring Semester	
Course	Units	Course	Units
<input type="checkbox"/> <b>IST 4210</b> - Advanced Computer Net.	3	<input type="checkbox"/> <b>IST 4910</b> - Enterprise System Admin.	3
<input type="checkbox"/> <b>IST 4620</b> - Pen. Testing & Ethical Hacking	3	<input type="checkbox"/> <b>IST 4310</b> - Web Technologies	3
<input type="checkbox"/> (GE) D4 - Upper Division Social Sciences	3	<input type="checkbox"/> Concentration Elective Course	3
<input type="checkbox"/> <b>IST 3420</b> - Systems Analysis & Design	3	<input type="checkbox"/> (GE) B5 - UD Scientific Inquiry	3
<input type="checkbox"/> Free Elective	3	<input type="checkbox"/> <b>IST 5930</b> - Seminar in Info. Systems & Technology	3
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>
<b>Degree Total Units</b>			<b>120</b>

(GE) = General Education Course
(UD) = Upper Division (Jr./Sr. Level)

*Use the roadmap in conjunction with the PAWS report to identify specific courses in each category*