

JROTC Cyber Curriculum Map Years 1-4

Year 3 180 Total Class Hours	In year three, the course starts with JROTC Leadership Training. Next, students build upon their understanding of security controls and deepen their understanding of risk management, cryptography, and system hardening. Additionally, they explore digital forensics, threat modeling, and secure software development. When the course concludes, the students should be comfortable with topics associated with CompTIA's Security+ certification exam.		
44 hours	JROTC Leadership Education Training <ul style="list-style-type: none"> ● Leadership ● Personal growth and behaviors ● Decision Making ● Health and Fitness (select topics) ● Service and Learning ● Civic Duties and Responsibilities 		
7 hours	Governance, Risk, and Compliance <ul style="list-style-type: none"> ● Controls ● Organizational Consequences of Privacy & Data Breaches ● Data Types ● Privacy Technologies ● Data Roles ● Regulations, Standards, & Legislation ● Personnel, Third-parties, Data Classification 	F.ISC.o03 F.ISC.t03	Security+ 5.1 5.5 5.2 5.3
5 hours	Physical Controls	F.CSF.t05	2.7
10 hours	Threats, Threat actors, Attributes, and Strategies <ul style="list-style-type: none"> ● Types of Threats ● Types of Actors ● Attack Vectors ● Attack Indicators ● Security Concerns Associated with Vulnerabilities 	F.CSF.o01 F.CSF.t05 F.CSF.t07 F.CSF.t14 F.ISC.t13a	1.5 1.1 1.2 1.6 1.4 1.3
10 hours	Cryptography and PKI (Advanced)	F.CSF.t06 F.CSF.t11	2.8 3.9
10 hours	Account Management Controls <ul style="list-style-type: none"> ● Identity ● Account Types ● Policies ● Authentication Methods ● Security Solutions 	F.CSF.t08 F.CSF.t09 F.CSF.t13	3.7 2.4 3.8

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15 hours	<p>System Architecture</p> <ul style="list-style-type: none"> • Configuration Management • Data Ownership & Protection • Secure Network Designs • Network Implementation • Host/Application Security 	<p>F.CSF.o01 F.CSF.t15 F.CSF.t07</p>	<p>2.1 3.3 3.1 3.2</p>
7 hours	Virtualization & Cloud Computing	<p>F.CSF.t07 F.ISC.t03a F.ISC.t03b</p>	<p>2.2 3.6</p>
10 hours	Secure Wireless & Mobile	F.ISC.t16	<p>3.5 3.4</p>
10 hours	Embedded & Specialized Systems	<p>F.ISC.t04 F.ISC.t16</p>	2.6
13 hours	<p>Risk Management</p> <ul style="list-style-type: none"> • Risk Types • Management • Analysis • Business Impact Analysis • Policies & Processes • Security Assessments • Penetration Testing 	<p>F.CSF.t04 F.ISC.t06 F.ISC.t08</p>	<p>5.4 4.2 1.7 1.8</p>
15 hours	<p>Operations & Incident Response</p> <ul style="list-style-type: none"> • Network Reconnaissance & Discovery • Cybersecurity Resilience • Mitigation Techniques • Event Investigation • Digital Forensics 	<p>F.CSF.t15 F.CSF.o03 F.CSF.t14 F.CSF.t15 F.ISC.t08</p>	<p>4.1 2.5 4.4 4.3 4.5</p>
20 hours	<p>Programming</p> <ul style="list-style-type: none"> • Secure Applications • Java • HTML 	F.ISC.t10	2.3
4 hours	JROTC Leader Education Training & Capstone project		