

# CY2 Curriculum Hours for a 130 Contact Hour Year



# Cyber Year 2 Course Description and Scope and Sequence

## 130 Core Class Hours

The course begins with fundamental JROTC Leadership Training. This course delves into the more technical aspects of the field, providing a firm foundation in network architecture and security by covering network topologies and technologies, IP addressing, ports and protocols, and network hardening. Students also learn about cybersecurity crime and cybersecurity law, while tying these concepts to citizenship and government. The course ends with a service learning project that focuses on leadership skills and team building. This course covers topics associated with CompTIA Network+ certification.

JROTC Leadership Curriculum	In Class (Contact Hours)
CY2U1: Leadership Education and Training (LET)	44
CY2U19: Leadership Education and Training (LET) – Service Learning Project	12

Cyber Curriculum At-a-Glance	In Class (Contact Hours)
CY2U2: Cybersecurity Ethics, Crime, and Cybersecurity Law	6
CY2U3: Physical Security	5
CY2U4: Networking Policies and Best Practices	3
CY2U5: Authentication and Access Control	7
CY2U6: Networking Topologies and Technologies	4
CY2U7: Advanced Networking Technologies	4
CY2U8: Cabling Solutions	2
CY2U9: IP Addressing	6
CY2U10: Ports and Protocols	4
CY2U11: Remote Access	4
CY2U12: Routing and Switching	6
CY2U13: Network Services	5
CY2U14: Network Troubleshooting Tools and Technologies	3
CY2U15: Network Monitoring, Patching, and Hardening	5
CY2U16: Common Mitigation Techniques	4
CY2U17: Virtualization and Cloud Computing	3
CY2U18: Wireless Networking	3



# NICE Competencies

Unit	Description	NICE Competency(ies)
Unit 1	JROTC Leadership Education and Training	
Unit 2	Cybersecurity Ethics, Crime and Cybersecurity Law	
Unit 3	Physical Security	Operational Technology (OT) Security
Unit 4	Networking Policies and Best Practices	Cyber Resiliency
Unit 5	Authentication and Access Control	Cyber Resiliency, Access Controls
Unit 6	Networking Topologies and Technologies	Cyber Resiliency
Unit 7	Advanced Networking Technologies	Cyber Resiliency, Communications Security, Access Controls
Unit 8	Cabling Solutions	Communications Security
Unit 9	IP Addressing	Communications Security
Unit 10	Ports and Protocols	Communications Security
Unit 11	Remote Access	Communications Security
Unit 12	Routing and Switching	Communications Security
Unit 13	Network Services	Asset Management
Unit 14	Network Troubleshooting Tools and Techniques	Cyber Resiliency
Unit 15	Network Monitoring, Patching, and Hardening	Cyber Resiliency, Supply Chain Security
Unit 16	Common Mitigation Techniques	Cyber Resiliency, Cryptography
Unit 17	Virtualization and Cloud Computing	Operating Systems (OS) Security, Cloud Security
Unit 18	Wireless Networking	Communications Security
Unit 19	JROTC Leader Education Training and Service Learning Project	

