

Welcome to the NCC Security+ Course

We are excited to have you join us for this comprehensive Security+ certification course, where you will start you on the path to gain essential cybersecurity skills that are highly valued in the industry. Our course syllabus is designed to keep you on track with weekly topics and activities, ensuring you are well-prepared for both the Security+ certification exam and a successful career in cybersecurity.

INSTRUCTOR INFORMATION

Your instructor for this course is **Bill Blatchley**, a seasoned software engineer with over 40 years of experience in designing and implementing custom software solutions for both the Department of Defense (DoD) and commercial enterprises. Bill has been teaching at the National Cybersecurity Center (NCC) for over five years and is passionate about helping students succeed in cybersecurity.

CLASS SCHEDULE

This course will meet Monday and Wednesday from 5:30 PM to 8:00 PM. During the class, you will work through the curriculum, which includes Testout and CompTIA Cert Master materials, as well as two engaging "Try Hack Me" activities. Throughout the course, you'll also have opportunities to hear from guest speakers and participate in NCC's First Friday events. Please keep in mind that the schedule might be adjusted slightly based on the instructor's discretion, but the syllabus will serve as your primary guide.

MEET & GREET

To kick off the course, we invite you to a meet-n-greet with your instructor, Bill Blatchley, and fellow classmates on January 10th at 5:30 PM at the NCC. This will be a great opportunity to ask any questions, get to know your peers, and enjoy some light refreshments.

WHAT TO EXPECT

The Security+ certification is one of the most widely recognized certifications in the cybersecurity field. Our course is designed to prepare you for the CompTIA Security+ (SY0-701) exam, which covers essential skills including threat analysis, vulnerability management, cryptography, and security architecture.



TESTOUT AND COMPTIA

The course will also delve into real-world scenarios through simulated labs using Testout, providing you with hands-on experience that mirrors actual cybersecurity environments.

- Testout: This platform offers online training and simulated labs to give you practical experience. It aligns with the Security+ certification exam to ensure you're prepared for the real-world challenges in the cybersecurity field.
- CompTIA: As a global leader in IT certifications, CompTIA partners with Testout to provide top-tier content and training. This course will help you build a strong foundation in cybersecurity and prepare you for the CompTIA Security+ certification, which is highly valued by employers worldwide.

SUPPORT & SUCCESS

Throughout the course, we want to ensure you feel supported and prepared. In addition to the course material, you will have access to our Graduate Success Pack, which includes a resume workshop, mock interviews with industry leaders, and NCC-branded swag to help you take the next step in your cybersecurity career. You can pick up your backpack at the Meet & Greet.

We look forward to your success in this course and can't wait to see the cybersecurity professionals you will become! If you have any questions, feel free to reach out to your instructor, Bill Blatchley, or Alexia Thompson at the NCC for further assistance. You are on the path to a rewarding and impactful career in cybersecurity, and we are here to guide you every step of the way.

Welcome once again, and best of luck!

Warm regards,

The National Cybersecurity Center Team

Security + Instructor: Bill Blatchley

Email: bill.blatchley@peakvista.com

Cyber Education Coordinator:

Alexia Thompson

Email: alexia.thompson@cyber-center.org



Week	Date	Testout/CompTIA Topics	Cert Master Topics	Notes
Week 1	13-Jan	Introduction: Security Overview, Defense Planning, Using the simulator	Explaining Network Topologies	Guest Speaker Aleta Jeffress, CEO, NCC. First Friday Jan 10th
Week 2	20-Jan	Threats, Attacks, and Vulnerabilities: Understanding Attacks, Malware, Social Engineering, Vulnerability Concerns	Supporting Cabling and Physical Installations	Hack the Box Activity Demonstration by Nicholas O., UCCS
Week 3	27-Jan	Physical Threats: Device and Network Protection, Environmental Controls	Configuring Interfaces and Switches	Hack the box solved and walkthrough
Week 4	3-Feb	Networks and Hosts Design and Diagnosis: Manageable Network Plan, Windows System Hardening, File Server Security, Linux Host Security	Configuring Network Addressing	First Friday Feb. 7th
Week 5	10-Feb	Devices and Infrastructure: Security Appliances, DMZs, Firewalls, NAT, VPNs, Web Threat Protection, Network Access Control, Threats	Configuring Routing and Advanced Switching	
Week 6	17-Feb	Identity, Access, and Account Management: Access Control Models, Authentication, Authorization, Windows and Linux User Management	Implementing Network Services	
Week 7	24-Feb	Cryptography and PKI: Cryptography Implementations, Hashing, File Encryption, PKI	Explaining Application Services	



Week 8	3-Mar	Wireless Threats: Wireless Overview, Attacks, Defenses	Supporting Network Management	Guest Speaker Pending First Friday Mar 7th
Week 9	10-Mar	Virtualization, Cloud Security, and Securing Mobile Devices: Virtual Networking, Cloud Services, Mobile Device Management	Explaining Network Security Concepts	
Week 10	17-Mar	Securing Data and Applications: Data Transmission Security, DLP, Web App Attacks, Application Security	Applying Network Security Features	
Week 11	24-Mar	Security Assessments: Penetration Testing, Intrusion Detection, Security Assessment Techniques	Supporting Network Security Design	Guest Speaker Rodney Gullate Jr., CEO , Firma IT Solutions and Services
Week 12	31-Mar	Incident Response, Forensics, and Recovery: Incident Response, Digital Forensics, Backup and Restore	Configuring Wireless Networks	First Friday Apr 4th
Week 13	7-Apr	Risk Management: Organizational Security Policies, Risk Management, Email	Comparing Remote Access Methods	
Week 14	14-Apr	Governance and Compliance: Audits, Controls, Privacy	Summarizing Cloud Concepts	Guest Speaker Lt. Gen. Harry Raduege, USAF (Ret.) , Senior Partner, Elara Nova
Week 15	21-Apr	Practice Exams	Network Sandbox	



Week 16	28-Apr	Practice Exams	CompTIA Network+ Practice Exams	First Friday May 2nd
Week 17	5-May			
Week 18	12-May	Take CompTIA Exam		

