



IMPACT

Radford University is delivering IMPACT: a competency-based education (CBE) workforce development program focused on cybersecurity. This program is the first and only one of its kind among public universities in Virginia.

Radford University is designated as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE) by both the National Security Agency (NSA) and the U.S. Department of Homeland Security (DHS).



RADFORD UNIVERSITY

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PROGRAM FEATURES

- Training aligned with NICE Cybersecurity Workforce Framework KSA's
- Targets high-demand skills
- Curriculum designed by industry professionals for professionals
- Structured, self-paced learning activities
- Delivered asynchronously online enabling self-paced training
- Designed to improve skills acquisition, retention, and performance
- Embeds learning sciences, analytics, scenario-based learning and gamification principles
- Learners utilize advanced cyber environments scalable to today's critical industry needs
- Collaborative environment encourages knowledge sharing and networking
- Compliant with DoD 8140 directive
- Learner progress tracking with personalized coaching provided upon learner request

IMPACT CYBERSECURITY CERTIFICATION

- Maps to national standards:
 - NICE Cybersecurity Workforce KSA's (Knowledge, Skills, and Abilities)
 - CIS Security Controls
- Aligns with syllabus for professional certification exams:*
- CompTIA Security+
- SANS GCIH
- SANS GPEN
- CISSP

COURSES - 18 TOTAL CREDITS

CBIT 100 (1 credit)

Cybersecurity Laws and Ethics

- Compliance, policies, plans, and procedures
- Types of cybercrimes
- Ethics in cybersecurity
- Laws to fight cybercrime
- Other forms of computer crime

Prerequisites: None

CBIT 101 (3 credits)

Foundations of Cybersecurity

- Legal and ethical obligations of a cyber warrior/employee
- Explore threats, attacks and vulnerabilities
- Planning an IT architecture in a digital economy
- Risk mitigation and access management concepts/techniques
- Basic concepts of PKI Management and cryptography

Prerequisites: None

CBIT 240 (3 credits)

Data and Web Security

- Introduction to SQL
- Database management systems
- Database security controls
- Database threats and access control method
- Database management best practices

Prerequisite: CBIT 101

*Although our IMPACT training will help prepare you for professional certification exams, additional preparation will be necessary due to the complexity and proprietary nature of the respective exam content.

CBIT 250 (3 credits)

Network Security

- Networking fundamentals
- Network architectures
- Network standards
- Common protocols
- Network security fundamentals
- Administrative tools

Prerequisite: CBIT 101

CBIT 475 (4 credits)

Penetration Testing and Incident Handling

- Penetration testing methodologies
- Penetration testing steps (ethical hacking)
- Intrusion handling

Prerequisites: CBIT 240, 250

CBIT 476 (4 credits)

Cyber Defense

- CIS controls
- People, policies, and technology security controls

Prerequisites: CBIT 240, 250

 **Content is aligned with NICE Cybersecurity Workforce Framework KSA's (Knowledge, Skills, and Abilities) to fully apply learning to necessary skills in today's high-tech job market. Content addresses the majority of subject matters within CompTIA Security+, and GSEC Security Essentials.**