



# M.S. Applied Cybersecurity

An online, full- or part-time, 16-month graduate degree (30 credit hours)

## PROGRAM DESCRIPTION

The Master of Science in Applied Cybersecurity will prepare students to work in cybersecurity or information technology administration positions, leading teams of cybersecurity specialists, positions implementing enterprise cybersecurity policy, and positions conducting incident investigations. The curriculum is designed to help prepare students to take the CISSP certification exam.

## PROGRAM PREREQUISITES

- A bachelor's degree from a regionally accredited institution
  - Undergraduate major should be in computer science, cybersecurity, information technology, information systems, management OR with prior coursework in cybersecurity fundamentals, operation systems, networking, and programming.
  - Undergraduate cumulative GPA of 3.25 OR work experience that demonstrates the candidate is capable of graduate-level work.

## ADMISSIONS REQUIREMENTS

- Graduate application
- Unofficial transcripts from all institutions attended
- Resume or C.V.
- Optional letter of recommendation (*professional or academic: recommended for applicants with lower GPA looking to indicate work experience shows graduate coursework capabilities*)
- Language proficiency requirement must be met. Submission of TOEFL, IELTS, PTE, or Duolingo English Test may be required. See our policy for full details: <https://www.su.edu/admissions/international-students>

## CURRICULUM

- **Core Courses (15 credits)**
  - CYBR 501 Risk Management, Policy & Best Practices
  - CYBR 520 Ethics, Law & Law Enforcement
  - CYBR 601 Advanced Networking & Telecommunications
  - CYBR 630 Software and Asset Security
  - CYBR 640 Cybersecurity Architecture & Operations
- **Electives (Choose four, 12 credits)**
  - CYBR 570 Cybersecurity Practicum
  - CYBR 595 Special Topics in Cybersecurity
  - CYBR 650 Cyberforensics (on-campus immersion required)
  - MIS 590 Intermediate Cybersecurity for Business
  - MIS 592 Advanced Cybersecurity for Business
- **Thesis or Capstone Project (Choose one, 3 credits)**
  - CYBR 660 Cybersecurity Thesis
    - Students planning doctoral work may wish to select this option but should discuss with their advisor.
  - CYBR 670 Capstone Project

Total: 30 credits

## ADMISSION & APPLICATION

### Start Term

Spring (January)  
Summer (May)  
Fall (August)

### Admission Deadline

Rolling

*Completed applications reviewed regularly*

### Format/Location

Online or hybrid

Some electives may require on-campus immersion experiences at the Winchester campus on nights or weekends

### How to Apply

Begin the online application process by going to <https://www.su.edu/admissions/graduate-students/>

### Foreign Transcripts

International transcript evaluation by an accredited agency is an admission requirement. Approved services are listed at [www.naces.org](http://www.naces.org) and <http://aice-eval.org/>.

### Transfer Credit

A maximum of six semester hours of grades "B" or better may be approved by the program director.

### Contact Us

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Office of Graduate Admissions  
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Office of Financial Aid  
<https://www.su.edu/financial-aid/incoming-graduate-aid/>  
[finaid@su.edu](mailto:finaid@su.edu) | call: 540-665-4538

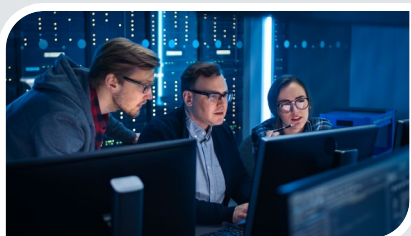


**Dr. Ralph Wojtowicz**  
Director, Division of Applied Technology

### CAMPUS LOCATION



**Winchester Main Campus**  
1460 University Drive  
Winchester, VA 22601



## THE DIVISION OF APPLIED TECHNOLOGY

The Mission of the Division of Applied Technology is to "foster the development of individuals to become creative problem solvers who possess a pioneering spirit and are ready to engage in entrepreneurial enterprises."

Protecting our cyber infrastructure has become an urgent national priority. The MS in Applied Cybersecurity will help supply a workforce better prepared to make critical, ethical and informed judgments as to cybersecurity implementation and management, thereby making positive contributions to society.

The use of case studies throughout the curriculum will help students further develop their analytical abilities and critical judgment. This master's program also includes a required ethics course to help students structure their decision making. The applied nature of the program will ensure that students are ready to solve real world problems in the workplace.

## FREQUENTLY ASKED QUESTIONS

- **Can this program be completed online?**  
Yes, the program can be completed fully online. Some elective courses (such as Cyberforensics) may require on-campus immersion experiences at the Winchester campus on nights or weekends.
- **Can I complete this program while working full time?**  
Yes, this program can be completed full-time or part-time if the student needs to progress at a slower pace.
- **How does this degree differ from Shenandoah's MBA program and Business Cybersecurity Graduate Certificate?**  
The MS Applied Cybersecurity focuses on the technical and practical expertise of working in the cybersecurity field while the MBA and Business Cybersecurity Certificate engage students in the work of developing policies and making business decisions related to cybersecurity. Students in the MS Applied Cybersecurity degree program may choose to also pursue the Business Cybersecurity Certificate based on their interests.