



# M.S. in Cybersecurity

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## Overview – Defend the World’s Data

Our online Master of Science in Cybersecurity will prepare you to protect businesses and individuals from malicious cyberattacks and data theft. Through a cutting-edge curriculum and highly interactive learning led by expert faculty, you will develop the specific technical and soft skills required of today’s cybersecurity professionals.

- No GRE/GMAT required
- 100% online
- Develop proficiency in machine learning & AI, secure software design, networking, data mining, penetration testing, and more
- Learn to solve critical cybersecurity issues through threat analysis, disaster recovery plans, digital forensics, and cryptography
- Learn from accomplished faculty who bring extensive industry experience from around the globe
- Gain the confidence to present findings to organizational leaders and prepare to move into managerial and senior leadership roles
- Build global cybersecurity skills in real time through our partnerships with leading security research centers
- No coding experience? Start with SBU’s [Online Graduate Certificate in Cybersecurity](#)

## Program Details

The St. Bonaventure Online Master of Science in Cybersecurity is a 30-credit graduate level program that you can complete in as few as 18-months. Courses are seven-weeks long and geared toward expanding your knowledge of cybersecurity through real-world coursework, cloud-based labs and direct interactions with our faculty of active cybersecurity experts.

It is an engaging and immersive learning experience that leverages the active research, live projects and professional connections of the WNY Cybersecurity Research Center at St. Bonaventure University.

The result is a one-of-a-kind learning experience that prepares graduates to become certified, and to lead cybersecurity initiatives and innovation across the globe.

## Admission Requirements

- A completed application
- Minimum 2.5 GPA
- Resumé
- A baccalaureate degree in computer science, cybersecurity, or a similar/relevant field (may require a foundational course) from an accredited college or university
- Transcripts from all institutions attended
- No GRE/GMAT required

## Degree Requirements

### Required

- CYB 501. Foundations of Cybersecurity, Ethical Hacking, Penetration Testing
- CYB 502. Advanced Cybersecurity
- CYB 503. Enterprise Security
- CYB 506. Enterprise Networks
- CYB 508. Applied Data Mining With Applications in Cybersecurity
- CYB 509. Machine Learning With Applications in Cybersecurity
- CYB 510. Risk Management and System Hardening & Protection

### Electives (Please choose 3)

- CYB 504. Cybersecurity Forensics
- CYB 505. Secure Software Design
- CYB 507. Applied Cryptography
- CYB 512. Cloud Computing

For course descriptions, go to [www.sbu.edu/graduate](http://www.sbu.edu/graduate) and click on the Graduate Course Catalog link.