

# MASTER OF SCIENCE IN CYBERSECURITY

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## Academic Programs

The Master of Science in Cybersecurity is a comprehensive 30-credit-hour accelerated degree program that prepares graduates for positions at entry and early mid-career managerial positions in a rapidly growing field. Cyber attacks. Cyber incidents. Cyber intrusions. These are new words that are emerging as hot buttons in our daily language. Increasingly, we are learning how cyber threats are posing serious challenges to our businesses, organizations, and government. On all fronts, the need for cyber security professionals far outpaces the supply. In particular, the area of cybersecurity is at the forefront in this domain.

## Program Requirements

To earn a M.S. in Cybersecurity, all students must complete 30 credits hours of graduate coursework and a portfolio of graduate work.

- Cyber Defense, MS (<https://catalog.baypath.edu/graduate/academic-programs/master-science-cybersecurity/cyber-defense-ms/>)
- Digital Forensics, MS (<https://catalog.baypath.edu/graduate/academic-programs/master-science-cybersecurity/digital-forensics-ms/>)
- Generalist, MS (<https://catalog.baypath.edu/graduate/academic-programs/master-science-cybersecurity/generalist-ms/>)

## Student Learning Outcomes

The totally online Master of Science in Cybersecurity cuts across organizational lines, taking a holistic approach to protecting digital assets (data, software programs, and networks). The emphasis is on developing cybersecurity leaders who:

- Evaluate technological developments and associated information, assurance and security risk.
- Develop effective risk assessment programs;
- Develop holistic governance programs for managing information risk;
- Integrate security into the organizational culture while engaging all organizational stakeholders;
- Assess the impact of human factors and security strategies and potential breaches of security;
- Understand legal and regulatory requirements in the United States and internationally;
- Develop and implement information assurance and security policies, including emergency management policies; and
- Develop and ensure quality control in information assurance and security management.