For information about the BS in Computer Science and Cybersecurity program, please contact:

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About the Program

The BS in Computer Science and Cybersecurity degree offered at the Fred DeMatteis School of Engineering and Applied Science follows the curriculum mandated by the National Security Agency (NSA) and the Department of Homeland Security (DHS). The Department of Computer Science is working to obtain NSA certification by 2021.

Graduates of the Cybersecurity program are fully qualified for careers as information security officers, penetration testers, and network administrators, to name a few. At the same time, they will be prepared to serve as software developers in a variety of computing fields across multiple industries.

Students must complete all of the existing requirements for Hofstra’s BS in Computer Science program, in addition to a wide variety of cybersecurity courses, such as system programming, network security, Linux system administration, and ethical hacking.

Hands-on experience with real-world projects and defense technologies ensure that our graduates will succeed in the technically challenging and rapidly changing field of cybersecurity.

In their junior year, students are also eligible to participate in the DeMatteis School Co-op Program, which gives qualified computer science students the opportunity to work on salary for a period of six to eight months in a field related to their degree program. Internship opportunities are also available.

Program Requirements

- The computer science portion of the curriculum includes all of the computer science and natural science courses required in the BS in Computer Science program (68 credits)
- The cybersecurity portion of the curriculum includes hands-on experience with penetration testing and system defense
- Designed to follow curriculum requirements mandated by the National Security Agency (NSA) and the Department of Homeland Security (DHS)
- Program culminates with a two-semester senior design project in the field of cybersecurity
- Overall average of C or better in required courses
- Minimum of 124 semester hours required

Careers in cybersecurity include:

- Chief information security officer
- Forensics analyst
- Information security analyst
- Network administrator
- Penetration tester
- Malware analyst
- IT security engineer
- Incident response engineer

“Behind every new hack or data breach, there’s a company scrambling to put out the fire. That’s good news for job seekers with cyber security skills. Employers can’t hire them fast enough … Every year in the U.S., 40,000 jobs for information security analysts go unfilled, and employers are struggling to fill 200,000 other cyber-security related roles.”

Forbes
The Fast-Growing Job with a Huge Skills Gap: Cyber Security
March 16, 2017