

DUAL-DEGREE BA/MS OR BS/MS IN CYBERSECURITY (4+1)

Program Contact: Chetan Jaiswal (chetan.jaiswal@qu.edu), 203-582-7862

Quinnipiac students have the rare opportunity to earn a bachelor's degree in their field of interest and then continue their education to earn a Master of Science in Cybersecurity. Qualifying students can complete their undergraduate degree in four years and obtain their MS in Cybersecurity after one additional year. Students apply to the MS program in the spring of their junior year. In today's competitive market, a graduate degree is often the key to success, and there is a higher demand than ever for cybersecurity experts.

Complementary undergraduate programs include: Computer Science, Software Engineering, Criminal Justice, Political Science, Computer Information Systems, Business Administration, Data Science, plus a variety of health science programs. Qualified candidates are automatically admitted to the graduate program upon completion of their undergraduate degree. Students have access to a dedicated adviser who is also the MS in Cybersecurity program director. Special programming and networking opportunities are available through a dedicated career development specialist.

The online MS in Cybersecurity program is the same program offered to graduate-level students. Courses are taught by world-class security experts and cover concepts and practices in cloud security and software security. Individual 1-credit courses include emphasis on hands-on projects using real-world cybersecurity tools. Students complete a hands-on capstone project using commercial or open source security tools, and will then have the opportunity to become part of a security community, both regionally and nationally.

Dual-Degree BA/MS or BS/MS in Cybersecurity (4+1) Program of Study

The program is open to students from any major with 3.00 or higher who have taken Programming & Problem Solving (CSC 110) and Data Structures and Abstraction (CSC 111) or equivalents. In addition, it is required that students will have completed coursework or certificates in database management and networking by spring semester of their senior year.

The core of the 30-credit Master of Science in Cybersecurity is made up of coursework that embodies the knowledge units set forth by the National Centers of Academic Excellence in Cyber Defense Education (CAE-CDE). Degree coursework culminates with a capstone project that challenges students to examine the architecture of a complex system, identify vulnerabilities and determine the specific security approaches that should be employed.

Code	Title	Credits
CYB 505	Introduction to Cybersecurity	3
CYB 510	Introduction to Security Technology	3
CYB 550	Cyber Policy	3
or		
CYB 613	Practical, Hands-on Healthcare Cyber Risk Management	

CYB 520	Data Security	3
CYB 530	Programming for Security Professionals	3
CYB 615	Introduction to Ethical Hacking, Operational Reconnaissance and Penetration Testing	3
CYB 690	Introduction to Secure Authentication and Access	3
CYB 695	Cloud Security	3
CYB 696	Introduction to Designing, Testing and Operating Resilient Systems	3
CYB 691	Cybersecurity Capstone	3
Total Credits		30

Admission Requirements: School of Computing & Engineering

The requirements for admission into the undergraduate School of Computing & Engineering programs are the same as those for admission to Quinnipiac University.

Admission to the university is competitive, and applicants are expected to present a strong college prep program in high school. Prospective first-year students are strongly encouraged to file an application as early in the senior year as possible, and arrange to have first quarter grades sent from their high school counselor as soon as they are available.

For detailed admission requirements, including required documents, please visit the **Admissions** page of this catalog.