

# Foundations of Cybersecurity

---

## Graduate Certificate in Foundations of Cybersecurity

The Foundations in Cybersecurity (<https://cs.njit.edu/certificate-foundations-cybersecurity/>) certificate provides foundational and detailed technical knowledge in security, privacy, and cryptography applied to computer systems, networks, and web applications.

### Prerequisites

Applicants should have a bachelor's degree from an accredited institution in a discipline related to computing (e.g., Computer Science, Computer Engineering, Information Sciences, or Information Technology). Applicants with a degree in a STEM discipline and relevant professional experience will also be considered. Further information can be found in the program's webpage (<https://cs.njit.edu/certificate-foundations-cybersecurity/>).

### Related MS programs

Students who achieve a GPA of at least 3.0 are assured admission into MS programs (<https://computing.njit.edu/graduate-degrees/>) offered by the Ying Wu College of Computing. All courses within this Certificate program can be applied toward the requirements of the MS in Cyber Security and Privacy program (<https://cs.njit.edu/ms-cyber-security-and-privacy-ms-csp/>). For students interested in other MS programs, it is recommended to consult the catalog (<https://catalog.njit.edu/graduate/computing-sciences/#masterstext>) to determine which courses fulfill the respective requirements. Current students may also reach out to YWCC advisors (<https://computing.njit.edu/academic-advisors-graduate/>) for additional information.

### Degree Requirements

The Graduate Certificate in Foundations of Cybersecurity can be completed by taking four courses (12 credits). The requirements must be satisfied as indicated in the following Course List.

Code	Title	Credits
<b>Core Courses</b>		<b>6</b>
CS 608	Cryptography and Security	
CS 645	Security and Privacy in Computer Systems	
<b>Electives</b>		<b>6</b>
Select two of the following:		
CS 631	Data Management System Design	
CS 634	Data Mining	
CS 643	Cloud Computing	
CS 646	Network Protocols Security	
CS 656	Internet and Higher-Layer Protocols	
CS 673	Software Design and Production Methodology	
CS 696	Network Management and Security	
IS 601	Web Systems Development	
IS 650	Data Visualization and Interpretation	
IS 657	Spatiotemporal Urban Analytics	
IS 665	Data Analytics for Info System	
MATH 661	Applied Statistics	
<b>Total Credits</b>		<b>12</b>