

Master of Science in Cybersecurity (M.S.-CYBERSECURITY)

The **Master of Science in Cybersecurity (M.S.-Cybersecurity)** program at the New York Institute of Technology - Vancouver (NYIT) is internationally acclaimed for its multi-faceted education and student success rate. Students will learn to critically evaluate various technical and architectural solutions in order to limit risk and mitigate the effects of hostile action, while studying algorithm concepts, risk management, and attack recovery. The program covers the design, implementation, and maintenance of software tools to support network security across multiple operating systems.



Highlights

- Students are able to enjoy brand new, state of the art facilities located at Broadway Tech Centre campus. The program is supported by a dedicated cybersecurity lab.
- The program offers an innovative, technology-oriented, and interdisciplinary curriculum taught by qualified and experienced faculty.
- M.S.- Cybersecurity is an applied degree and can be completed in less than two (2) years.
- Students have the opportunity to transfer between New York and Vancouver campuses.
- Financial aid is available to Canadian Citizens and Permanent Residents of Canada.
- Career planning services are available on campus to all students.
- International students are eligible to work off campus (max. 20 hrs/week) during their studies and can qualify for post-graduation work permits (up to three (3) years) after graduation.

The NYIT-Vancouver M.S.-Cybersecurity Program

M.S.- Cybersecurity echoes the non-thesis curriculum option already offered in New York. The program is ideally suited for students with a computer science, electrical engineering, or related backgrounds who intend to play a leading role in the implementation and management of computer and network security systems.

Students who graduate from the M.S.- Cybersecurity program can expect great demand from the following occupations:

- Cybersecurity Specialists
- Cybersecurity Engineers
- Network Administrators
- Cyber Threat Analysts
- Information Systems Managers
- Security Analysts

Intakes & Duration

There are three (3) terms in every academic year; Fall (15 wks, Sep.–Dec.), Spring (15 wks, Jan.–Apr.), and Summer (8 wks, May–Jul.). M.S.-Cybersecurity is a two (2) year program, but strong students can complete it in less than two years.

More Information →

https://www.nyit.edu/vancouver/degrees/cybersecurity_ms

Apply Now →

<https://www.nyit.edu/vancouver/apply>

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Admission Requirements¹

You must possess the following qualifications in order to be **considered** for the M.S.- Cybersecurity program at NYIT-Vancouver:

A FOUR (4) YEAR BACHELOR’S DEGREE IN COMPUTER SCIENCE OR RELATED FIELD¹ (or equivalent) from an accredited college or university	
A MINIMUM UNDERGRADUATE GPA OF 2.85 (on a 4.0 scale) or equivalent	
A MINIMUM GRE SCORE OF 300 (if required)	
DEMONSTRATED ENGLISH PROFICIENCY² Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS)	
TOEFL Minimum Score	IELTS (PREFERRED) Minimum Score
INTERNET BASED TEST	OVERALL
88	6.5

How to Apply

All NYIT-Vancouver applications are done online and require a non-refundable \$50 USD application fee. The application process begins here: nyit.edu/admissions/vancouver →

Once you have paid the fee, upload the following documents:

- Four (4) year Bachelor’s degree certificate
- Transcripts from **each semester** of your four (4) year Bachelor's degree
- Any transcripts or certificates received beyond your Bachelor’s degree program
- Proof of English proficiency (TOEFL or IETLS)²
- Copy of official GRE score (*if required*)
- Statement of Purpose (*recommended*)
- A copy of your passport
- Two (2) letters of recommendation from professors who are familiar with your undergraduate work (*recommended*)

[1] *Minimum requirements. The M.S.-Cybersecurity program has a limited number of seats and only the best applicants will be admitted to the program.*

[2] *This is not required if you have completed your Bachelor’s degree from an English speaking country such as Canada, the United States, the United Kingdom, Australia, or New Zealand. NYIT-Vancouver reserves the right to test new students for their English proficiency upon arrival on campus.*

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Tuition Estimates

<p>For two (2) years 30 CREDITS³</p>	<p>\$36,000 USD⁴</p>
<p>8 Required Courses (24) + 1 Elective (3) + 1 Project (3) + Technical Communications (0)</p>	
<p>Tuition per credit: \$1,080 USD Application Fee: \$50 USD (non-refundable) Technical Communications: \$1,620 USD⁶ College Fee: \$248 USD (per semester)</p>	

Financial Aid

Financial Aid is available to Canadian Citizens and Permanent Residents of Canada.

Intake Dates for 2022–2023

SEMESTER	APPLICATION DEADLINE ⁵	START DATE
SUMMER 2022	Closed	May 24, 2022
FALL 2022	Closed	Sept 6, 2022
SPRING 2023	Anticipated to open in late Spring 2023	TBA

International students are strongly encouraged to apply at least six (6) months prior to the start of their desired intake term to accommodate the processing of their study permit application with Canadian immigration.

Original documents must be presented to campus officials for verification during new student orientation.

Accreditation / Approvals

The School of Engineering and Computing Sciences at NYIT is accredited in the U.S. by the **Engineering Accreditation (EAC) of the Accreditation Board Engineering and Technology, Inc. (ABET)**. In British Columbia, Canada, the program is approved by the **Ministry of Advanced Education**. See here: <https://admin.bceqa.gov.bc.ca/report/> →

Program Overview

The M.S.-Cybersecurity core curriculum includes 30 credits, including eight (8) required courses (24 credits), one (1) elective (3 credits), one (1) supervised project (3 credits), and one (1) Technical Communications course (0 credits).

For more detailed course information, please see:

https://www.nyit.edu/degrees/cybersecurity_ms/curriculum →

[3] International students must take a minimum of 18 credits + Technical Communications per year to qualify for Full Time status (6 credits + Technical Communications in their first term and 6 credits in subsequent terms). If you have earned a bachelor degree from an English speaking country such as Canada or the U.S., you are eligible to apply for a waiver of the Technical Communications course. **[4]** For two (2) years. Amount does not include other fees or tuition fees for any prerequisite or bridge courses that may be required. Two-year tuition fee is calculated based on: Spring 2023 USD \$1,080/credit; Summer 2023 USD \$1,080/credit; Fall 2023 USD \$1,190/credit; Spring 2024 USD \$1,190/credit; Summer 2024 USD \$1,190/credit; . Tuition charges may change during study period without prior notice. See [nyit.edu/vancouver/about](https://www.nyit.edu/vancouver/about) for updates. **[5]** Applications may close earlier than the deadline dates. See [nyit.edu/admissions/vancouver](https://www.nyit.edu/admissions/vancouver) for updates. **[6]** Technical Communications course must be taken in the Spring 2023 semester. The course fee of USD \$1,620 is only applicable to Spring 2023 semester.

Master of Science in Cybersecurity (M.S.-CYBERSECURITY)***Core Courses***

All courses are **three (3) credit hours** unless otherwise specified.

CORE COURSES	
INCS 615	Network Security and Perimeter Protection
INCS 618	Computer Security Risk Management and Legal Issues
CSCI 620	Operating System Security
CSCI 651	Algorithm Concepts
INCS 712	Computer Forensics
INCS 741	Cryptography
INCS 745	Intrusion Detection and Hacker Exploits
INCS 775	Data Center Security
INCS 870	Project I
ESLI 593	Technical Communications (0 credits)

Prerequisite Courses

Students who are admitted to the program with insufficient background in mathematics or computer science may be required to take one or more of the following undergraduate prerequisite courses. All courses are **three (3) credit hours**.

PREREQUISITE COURSES	
CSCI 502	Computer Programming I
CSCI 504	Computer Programming II
CSCI 503	Computer Organization and Architecture
CSCI 507	Data Structures
CSCI 509	Operating Systems
MATH 170	Calculus I
MATH 180	Calculus II

Elective Courses

Students are required to choose one (1) elective course. All courses are **three (3) credit hours**.

For a list of elective courses, please see:

https://www.nyit.edu/degrees/cybersecurity_ms/curriculum →

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Application Checklist

To be **considered**¹ for the program, you must have:

- A four (4) year Bachelor's degree (or equivalent) in Computer Science or related field¹ from an accredited college or university
- A minimum undergraduate GPA of 2.85 (on a 4.0 scale) or equivalent
- A minimum GRE score of **300** (if required)
- Demonstrated English proficiency²

If you have met all of these qualifications, submit your application online and upload the following documents to: <https://www.nyit.edu/vancouver/apply> →

- \$50 USD **non-refundable** application fee
- Bachelor's degree completion certificate
- Semester-by-semester transcripts for **all four (4) years** of your Bachelor's degree
- Any transcripts or certificates received beyond your Bachelor's degree program
- Proof of English proficiency²
 - **TOEFL Score of 88 on the internet-based test;** or
 - **IELTS Score of 6.5 overall (preferred)**
- Copy of official GRE score (if required)
- Statement of Purpose (recommended)
- A copy of your passport
- Two (2) letters of recommendation from professors who are familiar with your undergraduate work (recommended)

Once you apply, you can notify our Admissions department by emailing

[**vancouver.admissions@nyit.edu**](mailto:vancouver.admissions@nyit.edu)

[1] Minimum requirements. The M.S.-INCS program has a limited number of seats and only the best applicants will be admitted to the program.

[2] This is not required if you have completed your Bachelor's degree from an English speaking country such as Canada, the United States, the United Kingdom, Australia, or New Zealand. NYIT-Vancouver reserves the right to test new students for their English proficiency upon arrival on campus.

ACADEMIC POLICY

Policy on submission of fraudulent academic documents for admission:

Students found to have submitted fraudulent academic documents, i.e., transcripts, for the purpose of admission to a degree program at NYIT-Vancouver, will have their admission cancelled and may be disciplined or expelled upon confirming that the documents submitted were forged. It is the responsibility of the applicant/agent to make sure the documents submitted during application process are not forged.

Clear understanding about the program

Before submitting application for admission, applicants must understand they have an in-depth knowledge about the program they are applying to. They must also have clear understanding of the curriculum structure and future prospect of this program they are applying to.