

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

The **Master of Science in Cybersecurity (M.S.-Cybersecurity)** program at New York Institute of Technology - Vancouver (New York Tech) 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 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 during their studies and can qualify for post-graduation work permits (up to three (3) years) after graduation.

### The New York Tech -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
- Network Administrators
- Information Systems Managers
- Cybersecurity Engineers
- Cyber Threat Analysts
- 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://vancouver.nyit.edu/vancouver/degrees/cybersecurity\\_ms](https://vancouver.nyit.edu/vancouver/degrees/cybersecurity_ms)

### Apply Now →

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

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***Admission Requirements<sup>1</sup>***

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

<b>A FOUR (4) – YEAR BACHELOR’S DEGREE IN COMPUTER SCIENCE, IT, OR RELATED FIELD<sup>1</sup> (or equivalent) from an accredited college or university</b>		
<b>A MINIMUM UNDERGRADUATE GPA OF 3.0 (on a 4.0 scale or equivalent)</b>		
<b>A MINIMUM GRE SCORE OF 295 (if required)</b>		
<b>DEMONSTRATED ENGLISH PROFICIENCY<sup>2</sup> Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) (Academic)</b>		
<b>TOEFL Minimum Score</b>	<b>IELTS (PREFERRED) Minimum Score</b>	<b>PTE</b>
<b>IBT OR HOME EDITION</b>	<b>OVERALL</b>	<b>OVERALL</b>
<b>88</b>	<b>6.5</b>	<b>58</b>

***Discretionary Admission***

Applicants with an overall GPA between 2.85 and 2.99 may, at the discretion of the Vancouver program dean, be admitted into the program.

Reasons for discretionary admission include but are not limited to:

- Submission of official GRE test scores of a minimum of 295, with a minimum percentile rank of 75% in quantitative reasoning
- Completion of a relevant master degree with a minimum GPA of 3.0
- Prior work experience (minimum 2 years in the related field)
- Applicants potential to contribute to the diversity of the student body (New York Tech Vancouver has identified a list of countries as diversity countries)

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

<sup>[2]</sup> 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, Ireland, Australia, or New Zealand. New York Tech Vancouver reserves the right to test new students for their English proficiency upon arrival on campus. IELTS indicator test are not accepted for admission.

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### *How to Apply*

All New York Tech Vancouver applications are done online and require a non-refundable \$50 USD application fee. The application process begins here: [vancouver.nyit.edu/admissions](https://vancouver.nyit.edu/admissions) →

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 or PTE)<sup>2</sup>
- Copy of official GRE score (*if required*)
- Statement of Purpose (*recommended*)
- A copy of your passport
- 1–2 page résumé or C.V.
- Two (2) letters of recommendation from professors who are familiar with your undergraduate work (*recommended*)

**[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. New York Tech Vancouver reserves the right to test new students for their English proficiency upon arrival on campus. Home edition tests for any English proficiency tests are not accepted for admission. IELTS indicator test are not accepted for admission.

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### Tuition Estimates

<p>For two (2) years <b>30 CREDITS<sup>3</sup></b></p>	<p><b>\$35,160 USD<sup>4</sup></b></p>
<p><b>8 Required Courses (24) + 1 Electives (3) + 1 Project (3) + Technical Communications (0)</b></p>	
<p>Tuition per credit: <b>\$1,145 USD</b> Application Fee: <b>\$50 USD</b> (non-refundable) Technical Communications: <b>\$1,717.50 USD<sup>6</sup></b> College Fee: <b>\$275 USD</b> (per semester)</p>	

### Financial Aid

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

### Intake Dates for 2024

SEMESTER	START DATE
FALL 2023	Sept 5, 2023
SPRING 2024	Jan 22, 2024
SUMMER 2024	May 21, 2024

For application start dates, please visit <https://vancouver.nyit.edu/apply#applicationdate>.

*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 New York Tech 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 has the consent from the **Ministry of Post-Secondary Education and Future Skills**.

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](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).**

**[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 2024 USD \$1,145/credit; Summer 2024 USD\$1,145/credit; Fall 2024 USD \$1,190/credit; Spring 2025 USD\$1,190/credit; Summer 2025 USD\$1,190/credit. Please note tuition is calculated at USD\$1,190/credit as an estimate from Fall 2025 onward. The actual tuition rate per credit will be determined later. Tuition charges may change during study period without prior notice. See [vancouver.nyit.edu/about](https://vancouver.nyit.edu/about) for updates. **[5]** Applications may close earlier than the deadline dates. See [vancouver.nyit.edu/admissions/](https://vancouver.nyit.edu/admissions/) for updates. **[6]** Technical Communications course must be taken in the Spring 2024 semester. The course fee of USD \$1,717.50 is only applicable to Spring 2024 semester.

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

### *Core Courses*

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

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

### *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**.

<b>PREREQUISITE COURSES</b>	
<b>CSCI 502</b>	<b>Computer Programming I</b>
<b>CSCI 504</b>	<b>Computer Programming II</b>
<b>CSCI 503</b>	<b>Computer Organization and Architecture</b>
<b>CSCI 507</b>	<b>Data Structures</b>
<b>CSCI 509</b>	<b>Operating Systems</b>

### *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](https://www.nyit.edu/degrees/cybersecurity_ms/curriculum) →

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### *Application Checklist*

To be **considered**<sup>1</sup> for the program, you must have:

- \$50 USD **non-refundable** application fee
- A four (4) year Bachelor's degree (or equivalent) from an accredited college or university
- A minimum cumulative GPA of 3.0 (on a 4.0 scale) or equivalent
- 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
- Demonstrated English proficiency<sup>2</sup>
- Proof of English proficiency<sup>2</sup>
  - **TOEFL Score of 88 on the internet-based test (IBT);** or
  - **IELTS Score of 6.5 overall (Academics);** or
  - **PTE Score of 58 overall**
- Copy of official GRE score (if required)
- 1–2 page résumé or C.V.
- Statement of Purpose (*recommended*)
- A copy of your passport
- Two (2) letters of recommendation from professors who are familiar with your undergraduate work (*recommended*)

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

Once you apply, you can notify our Admissions department by emailing [vancouver.admissions@nyit.edu](mailto:vancouver.admissions@nyit.edu)

## **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 New York Institute of Technology 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.