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

Apply Now →
https://vancouver.nyit.edu/apply
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Admission Requirements

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

1. A four (4) – year bachelor’s degree in computer science, IT, or related field (or equivalent) from an accredited college or university

2. A minimum undergraduate GPA of 3.0 (on a 4.0 scale) or equivalent

3. A minimum GRE score of 295 (if required)

4. Demonstrated English proficiency
   - Test of English as a Foreign Language (TOEFL)
   - or the International English Language Testing System (IELTS) (Academic)

<table>
<thead>
<tr>
<th>TOEFL</th>
<th>IELTS (PREFERRED)</th>
<th>PTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBT OR HOME EDITION</td>
<td>OVERALL</td>
<td>OVERALL</td>
</tr>
<tr>
<td>88</td>
<td>6.5</td>
<td>58</td>
</tr>
</tbody>
</table>

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 3 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)

[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. 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 →

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)[2]
- 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

<table>
<thead>
<tr>
<th>For two (2) years</th>
<th>30 CREDITS³</th>
<th>$34,230 USD⁴</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 Required Courses (21) + 2 Electives (6) + 1 Project (3) + Technical Communications (0)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tuition per credit: $1,080 USD  Application Fee: $50 USD (non-refundable)  Technical Communications: $1,620 USD⁵

Financial Aid

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

Intake Dates for 2023–2024

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>START DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL 2023</td>
<td>Sept 5, 2023</td>
</tr>
<tr>
<td>SPRING 2024</td>
<td>Jan 22, 2024</td>
</tr>
<tr>
<td>SUMMER 2024</td>
<td>May 21, 2024</td>
</tr>
</tbody>
</table>

For application start dates, please visit [https://vancouver.nyit.edu/apply#applicationdate](https://vancouver.nyit.edu/apply#applicationdate).

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/](https://admin.bceqa.gov.bc.ca/report/)

Program Overview

The M.S.-Cybersecurity core curriculum includes 30 credits, including seven (7) required courses (21 credits), two (2) elective (6 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: Summer 2023 USD $1,080/credit; Fall 2023 USD $1,145/credit; Spring 2024 USD $1,145/credit; Summer 2024 USD $1,145/credit; Fall 2024 USD $1,190/credit (estimate - TBD). 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 Summer 2023 semester. The course fee of USD $1,620 is only applicable to Summer 2023 semester.
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Core Courses
All courses are three (3) credit hours unless otherwise specified.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCS 615</td>
<td>Advanced Network and Internet Security</td>
</tr>
<tr>
<td>INCS 618</td>
<td>Computer Security Risk Management and Legal Issues</td>
</tr>
<tr>
<td>CSCI 620</td>
<td>Operating System Security</td>
</tr>
<tr>
<td>CSCI 651</td>
<td>Algorithm Concepts</td>
</tr>
<tr>
<td>INCS 712</td>
<td>Computer Forensics</td>
</tr>
<tr>
<td>INCS 741</td>
<td>Cryptography</td>
</tr>
<tr>
<td>INCS 745</td>
<td>Intrusion Detection and Hacker Exploits</td>
</tr>
<tr>
<td>INCS 870</td>
<td>Project I</td>
</tr>
<tr>
<td>ESLI 593</td>
<td>Technical Communications (0 credits)</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 502</td>
<td>Computer Programming I</td>
</tr>
<tr>
<td>CSCI 504</td>
<td>Computer Programming II</td>
</tr>
<tr>
<td>CSCI 503</td>
<td>Computer Organization and Architecture</td>
</tr>
<tr>
<td>CSCI 507</td>
<td>Data Structures</td>
</tr>
<tr>
<td>CSCI 509</td>
<td>Operating Systems</td>
</tr>
</tbody>
</table>
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Selection of Elective Courses.
Students are required to choose two (2) elective courses. All courses are three (3) credit hours. Students can choose two of the following courses:

<table>
<thead>
<tr>
<th>ELECTIVE COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 690</td>
</tr>
<tr>
<td>CSCI 657</td>
</tr>
<tr>
<td>INCS 735</td>
</tr>
<tr>
<td>INCS 775</td>
</tr>
<tr>
<td>INCS 810</td>
</tr>
</tbody>
</table>

For an extensive list of elective courses, please see:
https://www.nyit.edu.degrees/cybersecurity_ms/curriculum →
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Application Checklist

To be considered 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

☐ Proof of English proficiency

• 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
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.