Sheridan

Operational Technology Cybersecurity

Ontario College Graduate Certificate | 1 year / 2 years | Optional Coop
Davis Campus (Brampton) / Virtual (Online)

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Develop specialized skills and expertise needed to secure industrial systems.

Defend Canada's most vital sectors

Operations technology (OT) cybersecurity requires skills and knowledge that aren't used in information technology (IT) cybersecurity. As a graduate of Ontario's first college program to focus specifically on OT cybersecurity, you'll stand out by knowing how to protect systems and networks used in healthcare, military, government, manufacturing and other vital sectors.

Apply theory in class and in the real world

Through lectures, discussions and case studies, you'll learn how to integrate cybersecurity with OT, Industrial Control Systems, AI edge devices, smart manufacturing, Industrial Internet of Things and more. You'll then apply that theory through simulations, labs and group projects. A capstone project and mandatory work-integrated learning experience (co-op work term or workplace simulation) can help you develop real world experience and industry contacts.

Flexible learning and multiple pathways

This program is designed to suit diverse learning needs and career goals. Most courses are available online or in person to provide maximum flexibility and accessibility.

Career opportunities

As a graduate of Ontario's first college program to offer specialized cybersecurity training in operational technology, you'll be prepared to protect industrial systems and critical infrastructure in multiple sectors.

Roles you could work in after graduation include:

- OT Security Specialist
- Industrial Network Analyst
- SCADA Security Engineer
- Cybersecurity Compliance Analyst
- Incident Response Analyst (OT focus)
- Critical Infrastructure Security Consultant
- OT Security Analyst
- ICS Cybersecurity Analyst

Courses

Some of the courses you can expect to take in your program

- Threats and Vulnerabilities in OT Systems
- OT/ICS Security Standards and Compliance
- Cybersecurity Threats and Defense Strategies for Operational Technology
- Incident Response and Recovery for OT
- AI Edge Devices
- Smart Manufacturing, IIoT, and MES Integration

Fees

Fees displayed are for the first 2 academic semesters and include tuition, health insurance and ancillary charges. These are estimates only; subject to change. See website for details.

For Canadian students

- $7,612.04 CAD

For international students

- $19,942.90 CAD

How to apply:

5 easy steps

1. Find your program
2. Check the admission requirements
3. Apply online
4. Submit your documentation
5. Accept your offer

Ready to get started?

sheridancollege.ca/apply

International students

Find out more about...

- Post-graduation work permit (PGWP) eligibility
- Admission requirements
- English language proficiency requirements
- Fees and financial aid
- Provincial Attestation Letters (PALs)

sheridancollege.ca/international

Admission requirements

Program eligibility

Postsecondary diploma, advanced diploma, or degree in engineering, computer science, electronics or a related field.*

Applicant selection

*Applicants with credentials outside related fields will be considered based on a combination of academic experience and work experience in areas such as automation and control systems, IT, OT or Cybersecurity demonstrable through transcript(s) and resume submission. The details of this submission and how to submit can be found in your applicant portal.

Applicants who do not meet the admission requirements for this program will be assessed and advised individually and may be considered for other, related programs.

International applicants

- Official postsecondary transcripts, indicating courses completed to date, and credential must be submitted at the time of application. In case the transcripts/certificates are not in English, note that these documents must be accompanied by a notarized, official translation into English. Translated copies must also be accompanied by a copy of the original transcript.
- International applicants need to follow the international application process.

English language proficiency

All applicants whose first language is not English must meet Sheridan's English proficiency requirements.

Refer to the website for full admission requirements.