Sheridan

Operational Technology Cybersecurity

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

Scan here



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

- $7,622.04 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

Eligible applicants are selected based on previous relevant academic achievement or a combination of demonstrated postsecondary education and related work experience (as determined by the college).

*Applicants with credentials outside of the fields identified 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. These applicants will be asked to submit the following information to determine eligibility:

- Cover Letter (one page maximum):
  - Describe your personal or professional career goals and explain how this specific program at Sheridan will help you achieve those goals.
  - Please highlight any professional, academic or volunteer experience that directly relates to the program you are applying for.
- Résumé
  - Outline your academic background and include related work and/or unpaid/volunteer work experience.
  - Please ensure your resume highlights any experience relevant to your chosen program.

Résumé formats vary by country. Applicants must ensure their documents follow Canadian format and standards. For more information, see: "How do I create a Canadian-style resume?"

The Office of the Registrar will update your application in the Sheridan Application Portal to let you know if a submission is required.

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.

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.