

COMPUTER SYSTEMS TECHNOLOGY - SECURITY (CSTY)

Gear up with advanced skills to tackle any tech issue

Gain all the in-depth technical and customer service skills you need to manage and solve whatever IT challenge you confront. From cloud infrastructures to wireless access and network security, you'll train to configure desktop, server, and network operating systems and study programming languages. Plus, you'll gain the communication and project management skills desired by employers.

Cambrian is an authorized Cisco Systems Networking Academy, Red Hat Academy, and Microsoft IT Academy. Our students regularly score medals at the annual Skills Ontario Competition (<https://www.skillsontario.com/skills-ontario-competition/>). Learn directly from industry experts with a seven-week placement in the sixth semester.

Program highlights

- Authorized Cisco Systems Networking Academy, Red Hat Academy, and Microsoft IT Academy
- Seven-week placement in semester six
- Learn network security from industry experts
- Join a winning team at the annual Skills Ontario Competition (<https://www.skillsontario.com/skills-ontario-competition/>)
- Grads can challenge industry certifications that save you thousands of dollars and hundreds of hours

Program of study for 2026-27 Academic Year

Semester 1		Credits
CET 1022	Introduction to Networking	4
CET 1109	Windows Client for IT Professionals	4
CMP 1065	IT Essentials	4
CMP 1117	Introduction to Programming	4
ENG 1002	College Communications	3
One General Education course ¹		3
	Credits	22
Semester 2		
CET 1014	PowerShell	4
CET 1023	Switching, Routing, and Wireless Essentials	4
CET 1025	Linux System Administration	4
CET 1037	Microsoft Azure Fundamentals	3
IOT 1105	Relational Databases	4
MTH 1235	Technical Math and Subnetting	3
	Credits	22
Semester 3		
CET 1017	Adminstrating Windows Server Hybrid Core Infrastructure	4
CET 1024	Enterprise Networks, Security, and Automation	4
CET 1112	REST API integration with Python	3
CET 3120	Advanced Linux Administration	4
CET 3115	Identity and Access Admin	4
IND 1025	Indigenous Business Workshop	1

One General Education course ¹		3
	Credits	23
Semester 4		
CET 2415	Applied Project Management	3
CET 4100	Microsoft 365 Endpoint Admin	4
CRM 1007	Cybersecurity Operations	4
ENG 1754	Technical Communication	3
ISP 3026	Spreadsheets for Business	3
One General Education course ¹		3
	Credits	20
Semester 5		
CET 1026	Enterprise Core	4
CET 5105	Emerging Technologies	4
CET 5110	Microsoft 365 Administrator	4
CET 5115	Info Protection & Compliance	3
CET 5120	Automating the Cloud	4
CET 5125	Firewall Essentials	3
	Credits	22
Semester 6		
CET 1027	Enterprise Advanced Routing and Services	4
CET 1218	Cyber Threat Tactics, Techniques and Procedures VS Enterprise Security	4
CET 1310	Azure Security Technologies	3
CET 3601	Field Placement	6
CET 6110	BCP and DR	3
	Credits	20
	Total Credits	129

¹ For more information regarding General Education courses, click here (<https://cambriancollege.ca/general-electives/>).

Admission requirements

For graduates of the new curriculum (OSS): Ontario Secondary School Diploma (30 credits) or equivalent or mature student status, including:

- Any grade 12 English (C) or (U)
- Any grade 12 mathematics (C) or (U) (MCT4C is highly recommended)

Additional admission requirements

Recommendations

Computer competency in relevant software

Program delivery

2026-2027

Fall term start

SEMESTER 1: Fall 2026
SEMESTER 2: Winter 2027
SEMESTER 3: Fall 2027
SEMESTER 4: Winter 2028
SEMESTER 5: Fall 2028
SEMESTER 6: Winter 2029

Winter term start

SEMESTER 1: Winter 2027

SEMESTER 2: Spring 2027

SEMESTER 3: Fall 2027

SEMESTER 4: Winter 2028

SEMESTER 5: Fall 2028

SEMESTER 6: Winter 2029

Specific program pathways

Graduates can enter directly into the:

- Cybersecurity (<https://cambriancollege.ca/programs/cybersecurity/>) graduate certificate program
- IT Business Analysis (<https://cambriancollege.ca/programs/it-business-analysis/>) graduate certificate program
- Artificial Intelligence/Machine Learning (<https://cambriancollege.ca/programs/artificial-intelligence-and-machine-learning/>) graduate certificate program

College or university degree opportunities

If you are a graduate of this program, you may continue your studies at a college or university and you may receive credit(s) for your prior college education. Refer to Cambrian's college and university agreements (<https://cambriancollege.ca/supports-services/articulation-agreements/universities-in-canada/>) details for further information.

Employment opportunities

Graduates are prepared for employment opportunities in educational, governmental, medical, retail, industrial, or other work environments and may obtain positions as a(n):

- Network administrator
- Network designer
- Network installer
- System administrator
- Information systems product support technician
- Network security specialist

Contacts

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INTERNATIONAL ADMISSIONS