Information Security Management
School of Information Technology
ISM1 - Information Security Management

This program has been permanently suspended.

Program Description
The Information Security Management program teaches students to manage both the operational and strategic aspects of information security. Students develop the skills to identify how a business is vulnerable, and how to best safeguard their information. The program aslo teaches detailed practical aspects of security such as risk analysis, vulnerability testing, writing security policies, implementing access controls, and performing security audits. This one-year Ontario Graduate Certificate program is designed to provide students with a holistic approach to information systems security as it applies to business. The program offers a comprehensive understanding of security concepts and focuses on industry best practices for information security. Students gain the knowledge required to manage both the strategic and operational aspects of information security.

Academic Progression and Completion Requirements
Graduation from college programs requires a student to complete the program curriculum, meeting its academic standards, achieving a minimum cumulative G.P.A. of 2.0. From initial registration, there is a maximum of seven years (full-time or part-time) to complete the program curriculum.

Document of Recognition
Information Security Management Ontario College Graduate Certificate

Program Type
A One-Year Ontario College Graduate Certificate Program

Learning Outcomes
- The graduate has reliably demonstrated the ability to:
- 1. Apply knowledge of computer operating systems, networking, and various application software to the simulation of business processes.
- 2. Develop best practices to protect business resources through the application of knowledge of vulnerabilities and exploits.
- 3. Develop security strategies for the deployment of security procedures and protective devices.
- 4. Integrate information technology strategies that support business functions by employing knowledge of best practices of business processes and systems.

- 5. Develop security plans and strategies to include acceptable use of business information and systems by internal employees, contractors, consultants, business partners and customers.
- 6. Develop security plans and strategies to ensure the integrity of information in compliance with best practices, relevant policies, standards, and regulations.
- 7. Apply project management principles in the deployment of security policies and strategies.
- 8. Perform security audits to ensure compliance with security plans, policies, standards, regulations and best practices.
- 9. Develop and deliver a corporate training program to communicate both orally and in writing the security requirements for compliance with security policies.
- 10. Prepare security documentation for approval by senior management and present results of security audits.

Career Opportunities

Fanshawe's Information Security Management program graduates can expect to find opportunities as consultants or in security management roles, including:
- Information Security manager
- Information Security Consultant
- Risk analyst/manager
- Security analyst
- Forensic analyst
- Information Security penetration tester
- Information security auditor
- Network security analyst
- IT technical security specialist
- Threat-risk/vulnerability security specialist

Admission Requirements
A Two- or Three-Year College Diploma, or a Degree in a computing related field
OR
Acceptable combination of related work experience and post-secondary education as judged by the College to be equivalent to the above

Approximate Costs
Fee details are available at www.fanshawec.ca/fees

Contact
School of Information Technology: 519-452-4430

Campus Codes and Intakes
- Program Code: ISM1
- Campus Code: LC (LC - London)
- Winter - in person, Winter - online, Summer - in person, Summer - online, Fall - in person, Fall - online
- 15 week terms
- Academic Calendars available at www.fanshawec.ca/academicdates

Applicant Selection Criteria
Where the number of eligible applicants exceeds the available spaces in the program, the Applicant Selection Criteria will be:
- Preference for Permanent Residents of Ontario
- Receipt of Application by February 1st (After this date, Fanshawe College will consider applicants on a first-come, first-served basis until the program is full)
- Achievement in the Admission Requirements

English Language Requirements
Applicants whose first language is not English will be required to demonstrate proficiency in English by one of the following methods:

Test	Score
TOEFL iBT	88
IELTS Academic	Overall score of 6.5 with no score less than 6.0 in any of the four bands
CAEL	Overall score of 70 with no score less than 60 in any of the four bands
PTE Academic	59
Cambridge English	Overall score of 176 with no language skill less than 169
ESL4/GAP5	Minimum grade of 80% in Level 9, 75% in Level 10
Duolingo	Overall score of 120, with no score lower than 105
LANGUAGECERT	Overall score of 70 with no score less than 65 in any of the four skills

Program Pathways
For information about Program Pathways visit www.fanshawec.ca/programpathways.

Program Curriculum
Level 1
Take all of the following Mandatory Courses:
INFO-6001   Information Security - Credits 4
INFO-6003   O/S & Applications Security - Credits 4
INFO-6008   I.T. Auditing - Credits 3
INFO-6076   Web Security - Credits 4
INFO-6027   Security Planning - Credits 3
INFO-6070   Network Management - Credits 3
ACAD-6002   Graduate Success Strategies - Credits 1

Level 2
Take all of the following Mandatory Courses:
Group 1
INFO-6081   Monitoring & Incident Response - Credits 3
INFO-6010   CISSP Prep - Credits 3
INFO-6139   Managing Enterprise Networks - Credits 3
INFO-6065   Ethical Hacking & Exploits - Credits 4
RSCH-6016   Research Methodology & Capstone Project - Credits 4

Group 2
Take INFO-6079 or INFO-6077
INFO-6079   Security Applications - Credits 4
INFO-6077   Digital Forensics - Credits 4

Program Residency
Students Must Complete a Minimum of 11 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program.