

BUSINESS INFORMATION TECHNOLOGY (BTT)

About the Program

When you graduate from this two-year Business Information Technology graduate certificate program, you will be equipped to help shape how businesses manage their connected systems. As an IT professional, you will have the skills to analyze, design and implement creative and effective cloud-based solutions using appropriate programming languages, databases and data sources to meet the current and future business needs. You will also have knowledge in programming and networking, making you fully capable of working individually or as part of a diverse team across all industries and sectors.

This program includes an optional work term where you can put your skills into practice and gain valuable work experience in the IT industry. You will also be given the opportunity to innovate through an enterprise project.

Credential Awarded

Ontario College Graduate Certificate

Duration

2 Semesters (8 Months)

Starts

January, May, September

Program and Course Delivery

This program is offered in Seneca's hybrid delivery format with some courses available in Seneca's flexible delivery format. Some coursework is online and some must be completed in person. Students will need to come on campus to complete in-person learning requirements. For courses offered in the flexible delivery format, professors use innovative learning spaces and technology to teach students in a classroom or lab and broadcast in real time to students attending remotely. In flexible courses, students have the choice of coming on campus or learning online.

Skills

Throughout this program you will develop the following skills:

- cloud computing
- computer administration with Linux and Microsoft
- information technology networking
- database management
- information technology security
- business communication and leadership
- privacy, law and ethics

Work Experience

Optional Co-op

Students meeting all academic requirements may have the opportunity to complete an optional co-op work term(s) in a formal work environment. In most cases the work term(s) is a full-time paid position completed between two academic semesters. In programs with limited co-op

opportunities, additional academic requirements and a passing grade on a communication assessment may be required for eligibility. Eligibility for participation does not guarantee a work position will be secured. Additional fees are required for those participating in the optional co-op stream regardless of success in securing a work position.

Review eligibility requirements for work-integrated learning (<https://www.senecapolytechnic.ca/employers/seneca-works/work-integrated-learning/eligibility.html>)

Your Career

Graduates of the program can explore the following career options:

- technical support specialist
- network systems administrator
- helpdesk support
- information systems specialist
- personal computer specialist

Program of Study

Course Code	Course Name	Weekly Hours
Semester 1		
CIS660	Communication Skills IT Professionals	3
DBS610	Introduction to Database Systems	4
NWK680	Introduction to Networks	4
OSL640	Introduction to Open Source Systems	4
or OSL645	Introduction to Open Source Systems	
OSM620	Fundamentals of Microsoft Systems	4
PRG600	Programming Fundamentals	4
Semester 2		
DBS710	Advanced Database Design	4
NWK780	Traditional Networks	4
OSL740	Administration of Open Source Systems	4
or OSL745	Administration of Open Source Systems	
OSM720	Administration of Microsoft Systems	4
PMC700	IT Project Management, Fundamentals, Tools and Techniques	4
WEB700	Web Programming	4
Semester 3		
ITS800	IT Service Management	4
LDM860	Leadership for Managers	3
LPE945	Law and Ethics	3
OSM820	Advanced Administration of Microsoft Systems	4
QAT810	Quality Assurance and Troubleshoot	3
SEC935	Security Operations and Administration	4
WTP100	Work Term Preparation *	1
Work-Integrated Learning Term		

BTT441	Business Information Technology, Work Term *	30
Semester 4		
ADM950	Enterprise Project	4
DBS900	Assessing Big Data	2
PRG800	Programming Project	4
SEC835	Security in Databases and Web Applications	4
SOA915	Service Oriented Architecture	4
TPA905	Technology Planning and Acquisition	3

* Work-Integrated Learning Option Only

Program Learning Outcomes

This Seneca program has been validated by the Credential Validation Service as an Ontario College Credential as required by the Ministry of Colleges and Universities.

As a graduate, you will be prepared to reliably demonstrate the ability to:

- Install, configure, program and maintain IT applications, including operating and database management systems, to facilitate successful operations.
- Customize and deploy software securely to facilitate ICT operations in a small business
- Debug, document and troubleshoot applications to ensure effective functioning of ICT operations.
- Evaluate the system requirements to develop and document ICT solutions that meet the client's needs.
- Interpret, create, and document information in a manner that ensures accurate and clear communication amongst all stakeholders.
- Integrate and maintain software solutions that communicate over a network to enhance security and performance capability.
- Develop and implement cloud based solutions using appropriate programming languages, databases and data sources to meet current and future business needs.
- Apply principles of project management to plan, track, and present the progress of an ICT project
- Create strategies to address legal, ethical and privacy issues in IT to mitigate business risks.

- Develop personal and professional strategies to improve job performance and promote professional growth.
- Install, troubleshoot, and maintain networks in business settings to ensure effective operations.
- Create ICT strategies for the successful planning and operation of a small to medium-sized enterprise
- Assess business requirements against cost-benefit analysis to design and implement appropriate business information systems and applications.
- Manage the secure operation and resiliency of ICT systems to maintain business continuity.

Admission Requirements

- Ontario university/college degree, college diploma, advanced diploma or equivalent. Applicants with an equivalent combination of partial postsecondary and related work experience may be considered for admission. A relevant resumé and references must be provided.
- English proficiency (<https://www.senecapolytechnic.ca/international/apply/how-to-apply/admission-requirements/english-requirements.html>) for graduate certificate

International Student Information

International admissions requirements vary by program and in addition to English requirements (<https://www.senecapolytechnic.ca/international/apply/how-to-apply/admission-requirements/english-requirements.html>), programs may require credits in mathematics, biology, and chemistry at a level equivalent to Ontario's curriculum, or a postsecondary degree or diploma, equivalent to an Ontario university or college. Program-specific pre-requisite courses and credentials are listed with the admission requirements on each program page. To review the academic requirements please visit: Academic Requirements - Seneca, Toronto, Canada ([senecapolytechnic.ca](https://www.senecapolytechnic.ca/international/apply/how-to-apply/admission-requirements/academic-requirements.html)) (<https://www.senecapolytechnic.ca/international/apply/how-to-apply/admission-requirements/academic-requirements.html>).

Pathways

As a leader in academic pathways, we offer a range of options that will allow you to take your credential further in another Seneca program or a program at a partner institution.

To learn more about your eligibility, visit the Academic Pathways (<https://www.senecapolytechnic.ca/pathways.html>) web page.

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