

Software Engineering

What is cloud computing, and how can we ensure individual privacy and security?

How can I design and build an app for my mobile phone?

What impact will artificial intelligence have on the development of software and engineering design?

How will mobile phones interact with connected vehicles and smart environments?

How can we build an intelligent traffic system?

This program provides the required design and development expertise for developing robust software systems in a continually advancing sector.

The array of software engineering applications continues to grow. It ranges from special-effects software for the movie industry, to software controlling devices such as digital cameras and robots, to the software that drives businesses and the financial sector.

Accredited by the Canadian Engineering Accreditation Board, graduates from this program meet the academic requirements for registration as a licensed professional engineer in Canada.

Our program focuses on the analysis, design, development, and testing of reliable and secure software systems, as well as the integration of software into complex systems.



What will I study?

- Artificial Intelligence and Data Mining
- Cloud Computing
- Computer Networks
- Distributed Systems
- Embedded Systems
- Operating Systems
- Software and Computer Security
- Software Design and Architectures
- Software Project Management
- Software Quality
- Systems Programming

You can choose the Internet of Things specialization or follow the comprehensive program.

Your final-year Capstone project emphasizes engineering design, communication, teamwork and project management.

What can I do with my degree?

- Design and development of large, data-driven software systems for a variety of platforms, and devices
- Design of animation, visualization and entertainment software
- Development of productivity, database and financial software solutions
- Management of software projects, computer networks and cloud-based applications
- Quality assurance and software systems maintenance

Want more information?

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