

Lead tomorrow's software development

All around the world, people interact with software on a daily, meaning the impact that software engineers have on society is monumental. At Waterloo, you'll apply engineering practices to computer science and learn to develop complex software systems. You'll analyze software architecture, apply algorithms, and design human-computer interfaces. By graduation, you'll have the technical skills you need to lead major programming projects.

In first year, you'll develop a strong foundation in mathematics, natural sciences, and computer science, while taking courses in software design, circuits, and programming. In upper years, you'll tackle user interfaces, feedback control and networks, and develop practical skills for your career with our project-intensive curriculum. Top it all off with hands-on labs, two years of work experience, and a fourth year design project, and your résumé will be packed with experience by the time you graduate.

YOUR FIRST YEAR

FIRST TERM

- > Methods of Software Engineering
- > Programming Principles
- > Calculus 1
- > Linear Algebra
- Algebra for Honours Mathematics (Algebraic Proofs)
- > Classical Mechanics

SECOND TERM

- > Data Abstraction and Implementation
- > Digital Circuits and Systems
- > Linear (Analog) Circuits
- → Calculus 2
- > Electricity and Magnetism

KICK-START YOUR IDEAS

We provide the support you need to bring your ideas to life. This includes the Sedra Student Design Centre, Velocity, and vast entrepreneurial funding opportunities.

Software Engineering students were part of the team that founded Ubiq, a revolutionary presentation tool. Using wireless technology, Ubiq can transfer any kind of content between devices. With help from the Velocity Fund, Ubiq won the financial resources to take their business to the next level. They also participated in the prestigious Y Combinator program!



Waterloo offers the

WORLD'S LARGEST CO-OP PROGRAM

CO-OP AT WATERLOO = REAL WORLD EXPERIENCE

You'll have an unrivaled opportunity to gain paid work experience before you even graduate. We'll help you navigate job applications, résumés, and interviews; plus, professional development is built right into your first-year courses. It all adds up to a competitive advantage after graduation. Software Engineering students are part of the Stream 8 sequence.

STREAM 8 STUDY AND CO-OP SEQUENCE

YEAR	TERM	STREAM 8
1	Fall	Study (1A)
	Winter	Study (1B)
	Spring	Work
2	Fall	Study (2A)
	Winter	
	Spring	Study (2B)
3	Fall	Work
	Winter	Study (3A)
	Spring	Work
4	Fall	Study (3B)
	Winter	
	Spring	Study (4A)
5	Fall	Work
	Winter	Study (4B)

Fall term: September to December Winter term: January to April Spring term: May to August









There's no shortage of ways to get involved – you'll have both an outstanding education, as well as a vibrant student experience.

BEYOND THE CLASSROOM

As a Waterloo Engineer, it's easy to get in on the action. You can join the Engineering Society, make a difference with Engineers Without Borders, or apply your studies with a student design team. As a Software Engineering student, you'll also be part of the Faculty of Mathematics; take advantage of MathSoc's games collection or help edit MathNEWS! If you have any questions about student life or want to shadow a current student for a day, our ambassadors can help!

uwaterloo.ca/engineering-student-ambassadors

OUT IN THE WORLD

Complex software systems have become a necessity in today's technology-driven society - they impact how we communicate, work, and ultimately live our day-to-day lives. The work of software engineers has been a driving force in the creation of everything from social networks, to life-saving medical tools and critical advancements in artificial intelligence.

YOU NAME IT, SOFTWARE ENGINEERS DEVELOP IT

Our grads have created impressive things:

- > Online retail software for multimillion-dollar businesses
- > Sophisticated smartphone interfaces
- > Software for Internet of Things (IoT) devices
- > Next-generation telecommunication systems

TOP LOCATIONS FOR CO-OP

- > Greater Toronto Area
- > Vancouver
- > Seattle
- > San Francisco Bay Area

FACULTY OF ENGINEERING UNDERGRADUATE ADMISSIONS

enginfo@uwaterloo.ca





@WaterlooEng



@UWaterlooEng

UNIVERSITY OF WATERLOO
200 UNIVERSITY AVE. W., WATERLOO, ON, CANADA N2L 3G1