

MANAGEMENT ENGINEERING

Analytics and engineering for optimized systems. Move beyond traditional approaches to management, using your analytical skills to modernize decisions in any industry. In Canada's first and only Management Engineering program, you'll apply engineering tools and skills to design, plan and manage optimized systems and processes in organizations.

During your first year, you'll develop a strong foundation in programming, mathematics, management, engineering, and natural sciences. In upper years you'll dive deeper, taking courses on analytics, operations management and optimization, software systems and user experience, and organizations and technology management. Top it off with two years of work experience and a fourth year design project, and you'll have a résumé that boasts superior problem solving and interpersonal skills – a great start for a career in almost any industry!

uwaterloo.ca/management-engineering

98.8% of Management Engineering students found co-op jobs in 2021

7,000+ co-op employers from around the globe

YOUR FIRST YEAR

FIRST TERM

- > Management Engineering Concepts
- > Mechanics
- > Linear Algebra
- > Calculus 1
- > Chemistry

SECOND TERM

- > Computer Programming
- > Work Design and Facilities Planning
- > Communication in the Engineering Profession
- > Electrical Circuits and Instrumentation
- > Calculus 2
- > Physics

KICK-START YOUR IDEAS – MAJIK SYSTEMS

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.

Management Engineering students founded MAJiK Systems, a company that builds real-time machine monitoring software for factories. This allows manufacturers to continuously improve productivity by capturing operational data and machine performance. MAJiK worked out of the Velocity Garage incubator, where they received the free work-space, mentorship, and community support to build their business.



Waterloo offers the

WORLD'S LARGEST CO-OP PROGRAM



CO-OP AT WATERLOO = REAL WORLD EXPERIENCE

You'll have an unrivalled opportunity to gain paid work experience before you even graduate. We'll help you navigate job applications, résumés, and interviews; you'll have the added benefit of trying out different roles and/or industries to find the one that fits you while building your work experience and reinforcing your in-class learning out in the real world. It all adds up to a competitive advantage after graduation. Management 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	Work
	Spring	Study (2B)
3	Fall	Work
	Winter	Study (3A)
	Spring	Work
4	Fall	Study (3B)
	Winter	Work
	Spring	Study (4A)
5	Fall	Work
	Winter	Study (4B)

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

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. If you have any questions about student life or want to shadow a current student for a day, our Engineering Ambassadors can help!

uwaterloo.ca/engineering-student-ambassadors

OUT IN THE WORLD

Management engineers are making a serious impact in many diverse industries. Whether it's high-tech companies, financial institutions, global supply chains, or governments and non-profits, these engineers can help improve effectiveness and efficiency. This includes analyzing big data to design more efficient operations and managing the design and evolution of new software products.




TOP CO-OP JOB TITLES

- > Business analyst
- > Product manager
- > Data scientist
- > Supply chain analyst
- > Full-stack developer

TOP INDUSTRIES FOR CO-OP

- > Technology and Software (Microsoft, Google, and Flipp)
- > Manufacturing (Toyota, Tesla, and PepsiCo)
- > Consulting, Finance, and Insurance (Deloitte, Manulife, and RBC)
- > Supply Chain and Distribution (Canada Post, Loblaws, and Home Depot)
- > Education and Health (St. Michael's Hospital and the Toronto District School Board)

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