



# MANAGEMENT ENGINEERING

[uwaterloo.ca/management-engineering](http://uwaterloo.ca/management-engineering)

**98.2%** of Management Engineering students found co-op jobs in 2019

**OVER 7,000** co-op employers from around the globe

## *Analytics and engineering for optimized performance*

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 design management systems to make companies more efficient and profitable.

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 operations management, information/software systems, and organizational decision making. 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!

### YOUR FIRST YEAR

#### FIRST TERM

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

#### SECOND TERM

- › Computer Programming
- › Electrical Circuits and Instrumentation
- › Work Design and Facilities Planning
- › Communication in the Engineering Profession
- › 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.



UNIVERSITY OF  
**WATERLOO**



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; 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



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. 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](http://uwaterloo.ca/engineering-student-ambassadors)

## OUT IN THE WORLD

Management engineers are making a serious impact in many diverse industries. Whether it's governments, universities, manufacturing, or business, these engineers can help improve effectiveness and efficiency. This can include designing more efficient operations, developing smooth information flows, managing technological change, and analyzing big data.

## EXPLORE YOUR INTERESTS

The breadth of our program lets you explore interests in many areas:

- > Big Data analytics
- > Operations management and optimization
- > Logistics and supply-chain management
- > Software and user experience
- > People, organizations, and technology

## TOP INDUSTRIES FOR CO-OP

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

FACULTY OF ENGINEERING  
UNDERGRADUATE ADMISSIONS

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UWaterlooEngineering



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