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in the presence of the University of Waterloo in 1977. He...  
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Ken Fryer



Professor Ken Fryer is pictured at the University of Waterloo and the University of Waterloo.

# FINANCIAL ANALYSIS AND RISK MANAGEMENT

CO-OP OR REGULAR

**NEW:** Complete your degree completely online

## Advance your quantitative and analytical problem-solving skills

Combine courses in mathematics, statistics, and computer science with corporate finance, asset pricing, microeconomics and macroeconomics, and other business-related courses to gain a thorough grounding in Financial Analysis or Risk Management. In this exciting program, you'll be able to choose one of two professional paths and their professional designations: Chartered Financial Analyst (CFA) or Professional Risk Manager (PRM).

### DANIEL'S COURSE RECOMMENDATIONS

- > **CO 250 Introduction to Optimization:** A great introduction to a branch of math that is dedicated to finding optimum solutions to routing, packing, and sorting problems. Trust me, this is relevant!
- > **ECON 290 Models of Choice in Competitive Markets:** This course focuses on economic models of choice by consumers and firms. You'll make good use of your notes from Econ 211.
- > **ACTSC 371 Introduction to Investments:** Great introduction to derivative securities and capital markets. Take advantage of the Finance Lab.
- > **ACTSC 445 Quantitative Enterprise Risk Management:** Learn about risk management with a focus on quantitative analysis and economic capital, and the types of risk most suited to quantitative methods.
- > **MATBUS 472 Risk Management:** From the principles of Risk Management and hedging strategies, to global financial market regulation, this course is packed with helpful information and uses case studies to explore the content.

**2** professional designations to choose from: CFA or PRM

**#1** in Canada for partnerships with employers

**DANIEL**  
3A MATH/FINANCIAL ANALYSIS AND RISK MANAGEMENT, CO-OP

### WHY DID YOU CHOOSE WATERLOO?

First, Waterloo is the greatest school in Canada for Math. Second, my mom is a Waterloo Math graduate, so it's always been ingrained in me, at least since grade school, that I would go to Waterloo. And third, during my first tour of campus, I loved the environment and knew it was the right place for me.





# WATERLOO IS A GLOBAL LEADER IN CO-OPERATIVE EDUCATION

## CO-OP STUDENTS AT WORK

Co-op bridges the gap between the classroom and the real world. Find opportunities to connect classroom theory with applications in a wide range of employment settings. During your co-op work terms, you will assume various job responsibilities, pick up new work-related skills, and earn competitive salaries.

### TYPICAL CO-OP POSITIONS

- › Analyst, City of Toronto, **Daniel's first co-op job**
- › Assistant to the Investment Advisor, RBC Dominion Securities, Toronto
- › Sales Tax Internship, Walmart Canada, Mississauga
- › Liquidity Management Analyst, CIBC, Toronto
- › Assistant Risk Manager, Sagicor Financial Corporation, Barbados

## STUDY AND CO-OP SEQUENCE 1\*

YR.	TERM	REGULAR	SEQ. 1
1	Fall	Study	Study
	Winter	Study	Study
	Spring	Off	<b>Work</b>
2	Fall	Study	Study
	Winter	Study	<b>Work</b>
	Spring	Off	Study
3	Fall	Study	<b>Work</b>
	Winter	Study	Study
	Spring	Off	<b>Work</b>
4	Fall	Study	Study
	Winter	Study	<b>Work</b>
	Spring		Study
5	Fall		<b>Work</b>
	Winter		Study

\* This study-work sequence is one of 4 co-op sequence choices.



Daniel participates in the FARM student association as its IT analyst, is a Math Ambassador at open houses, and dances in the Mambo Club.

## CUSTOMIZE YOUR DEGREE

Starting in third year, you can specialize in Financial Analysis or in Risk Management:

### Financial Analysis

Financial analysts use data and information in a company's financial statements for valuation, credit risk assessment, management compensation, investment, and other economic decisions.

### Risk Management

The roles of risk managers within the corporate structure are varied and interesting. The increasing focus on credit, operational, market and financial risk management means that you will have a wide range of opportunities.

## ONLINE LEARNING

You now have the option to complete some or all of your FARM program online! Visit [uwaterloo.ca/mbap/farm-online](http://uwaterloo.ca/mbap/farm-online) for more information.

## ACCREDITATIONS

### Chartered Financial Analyst Designation

The University of Waterloo is nationally recognized by the Chartered Financial Analyst Institute. As a FARM student, you may:

- › write the CFA Level 1 exam in your 4A term.
- › complete the CFA Level 2 exam immediately following graduation.

### Professional Risk Management Designation

We offer the first bachelor's degree program in North America to gain official PRM accreditation from the Professional Risk Manager' International Association (PRMIA). When you successfully complete your degree, you'll be eligible for exemptions for PRM Exams I and II.

## GRADS AT WORK

- › Financial Analyst, Scotiabank, Toronto
- › Asset/Liability Manager, TD Securities, Toronto
- › Credit Risk Manager, RBC, Montreal
- › Sr. Financial Analyst, Citigroup Inc., New York
- › Operational Risk Modeling Analyst, CIBC, Toronto
- › Analyst, Canada Pension Plan Investment Board, Toronto
- › Business Intelligence Consultant, Iconomics, Toronto
- › Assistant Fund Manager, Nomura Asset Management Co., Ltd., Tokyo



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FACULTY OF MATHEMATICS  
MATH/FARM CO-DIRECTORS  
BRENT MATHESON, MSC, MBA, CFA  
PETER BLAKE, CA/CPA

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