

Computing and Financial Management

11/04/2017

One degree. Twice the expertise.



UNIVERSITY OF
WATERLOO

Computing and Financial Management

DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE | SCHOOL OF ACCOUNTING AND FINANCE

INTRODUCTIONS

11/04/2017

Program Manager

Heather Steinmetz

Co-Directors

- Alan Huang, Professor | School of Accounting and Finance
- George Labahn, Professor | David R. Cheriton School of Computer Science

CFM Students

- Michael Song (1A)
- Andrew Nitu (2A)
- Chenyi Yang (2B)
- Jimmy Zhou (3A)



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WHAT WE WILL COVER

- Who we are
- What you'll learn
- Professional designations through CFM
- Course breakdown and schedule
- The co-op advantage
- Student support
- Admission requirements
- Application process
- Tuition and funding
- Questions and contacts



WHO WE ARE

- We are a combined program in both the School of Accounting of Finance in the Faculty of Arts and the David R. Cheriton School of Computer Science in the Faculty of Mathematics
- We admit roughly 45 first-year students each year
- We have 200 students in all years of study
- We have roughly 100 CFM alumni since 2011
- Managed by 1 Program Manager, 1 Program and Recruitment Associate (co-op student) and 2 Co-Directors



WHAT YOU'LL LEARN IN CFM

How to develop expertise in the areas of:

- Computer science
- Business and finance
- Financial data analytics
- Financial Technology (FinTech)



MEET OUR CFM CO-DIRECTORS



Alan Huang, Associate Professor
School of Accounting and Finance



George Labahn, Professor
David R. Cheriton
School of Computer Science

PROFESSIONAL DESIGNATIONS

FINANCE

- Advanced preparation for the Chartered Financial Analyst (CFA) designation
- CFA professional program = 3 exams + 4 years of work experience in the investment decision-making process
- CFM students can challenge the Level 1 CFA exam as early as 4th year



INFORMATION TECHNOLOGY

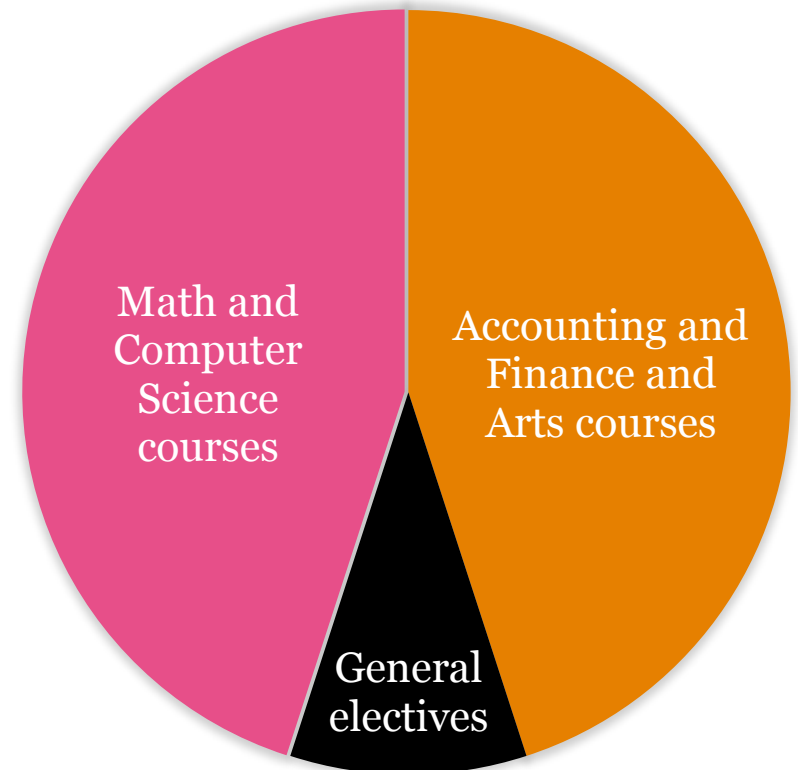
- We are a recognized program by Canada's Association of I.T. Professionals
- Two designations in I.T. earned through working experience:
 1. Information Systems Professional (ISP)
 2. Information Technology Certified Professional (ITCP)



COURSE BREAKDOWN

40	Total courses
18	Courses in computer science and math
18	Courses in accounting and finance and arts
4	General electives

- Math and computer science courses are offered through the **Faculty of Mathematics**
- Accounting and finance and arts courses are offered through the **Faculty of Arts**



FIRST-YEAR COURSES

This is your first year at a glance.

FALL TERM (1A) September - December	WINTER TERM (1B) January - April
Computer Science 1: Designing Functional Programs	Computer Science 2: Elementary Algorithm Design and Data Abstraction
Algebra	Linear Algebra
Calculus 1	Calculus 2
Intro to Financial Accounting	Intro to Managerial Accounting
Intro to Business in North America	Intro to Global Financial Markets



SAMPLE CLASS SCHEDULE | FALL TERM (1A)

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30am		Designing Functional Programs		Designing Functional Programs	
9:00am					
9:30am					
10:00am					
10:30am	Algebra	Algebra Tutorial	Algebra		Algebra
11:00am					
11:30am		Intro to Business		Intro to Business	Financial Accounting Tutorial
12:00pm					
12:30pm	Calculus 1		Calculus 1		Calculus 1
1:00pm					
1:30pm	Financial Accounting		Financial Accounting		Financial Accounting
2:00pm					
2:30pm					
3:00pm					
3:30pm			Designing Functional Programs Tutorial		
4:00pm					
4:30pm				Calculus 1 Tutorial	
5:00pm					



MEET OUR CFM STUDENTS



SHARE YOUR STORY

- How do you?
 - Manage your course load
 - Work through your assignments
 - Attend your classes
 - Build your study habits
 - Feel connected to your program and campus

THE CO-OP ADVANTAGE

CFM is a mandatory co-op program and will take 5 years to complete with six 4-month co-op terms.

- Gain 2 years of relevant and varied work experience during your studies
- Try out different jobs and find out what you like
- Network with employers before you graduate to find meaningful full-time work in the industry
- Earn income to contribute towards the cost of tuition, books, and living expenses
- Build your skills through real life on-the-job experience



THE CO-OP ADVANTAGE

CFM CO-OP SEQUENCE

Year 1			Year 2			Year 3			Year 4			Year 5	
F17	W18	S18	F18	W19	S19	F19	W20	S20	F20	W21	S21	F21	W22
1A	1B	WT1	2A	WT2	2B	WT3	3A	WT4	3B	WT5	4A	WT6	4B

F = Fall term (Sep. to Dec.) | W = Winter term (Jan. to Apr.) | S = Spring term (May to Aug.) | WT = Work Term

SAMPLE FIRST TIME CO-OP JOBS

- Android Developer – Mobile
- Analyst, National Risk Management
- Product Manager
- Software Quality Analyst
- Capital Market Risk Management
- eBusiness Specialist



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MEET OUR CFM STUDENTS



SHARE YOUR STORY

- Tell us about:
 - Your co-op experience(s)
 - The resources and support for finding a job
 - The job application and interview process
 - What jobs you've enjoyed most and why

WHAT EMPLOYERS ARE SAYING

“The Computing and Financial Management students we’ve hired from the University of Waterloo provide a fantastic fit, a great blend of technical, analytical and business skills – ideal for driving the transformation to a Mobile-First, Cloud-First world at Microsoft Canada.”

- National Azure Product Manager, Cloud & Enterprise, **Microsoft Canada**

“Students with a computing and finance background meet the needs of our financial technology division very well. We enjoy working with students who take initiative and focus on execution into achieving professional goals.”

- Keru Liu, Director, Fixed Income IT, **Barclays Capital, Asia Pacific**

STUDENT SUPPORT

- Join our tight-knit community and...
 - Be a part of the CFM Mentorship Program
 - Attend CFM-specific events (i.e. co-op prep, games night..)
 - Take advantage of the School of Accounting and Finance Living-Learning Community (LLC) in first-year residence
 - Double your access to academic coaching and professional development resources through the two schools

WHY CHOOSE CFM?

1. Balanced studies in computer science and finance
2. Earn the skills to work in the growing field of FinTech
3. Prepare your career for a professional designation
4. 2 years of co-op experience – fund your education
5. Personalized attention from a dedicated academic advisor
6. Small community of students
7. Support from students for academic and personal success

“I chose CFM because I think two majors are better than one, especially from the University of Waterloo.”



ADMISSION REQUIREMENTS

MINIMUM GRADES

- 6 grade 12 U or M courses, including:
 - 12 U English (minimum grade of 75%)
 - 12 U Calculus and Vectors
 - 12 U Advanced Functions
 - 1 other grade 12 U-level course (choose what you like to study!)
- Admission average: 90s



ADMISSION REQUIREMENTS

ADMISSIONS INFORMATION FORM (AIF)

- This is mandatory for consideration into CFM
- Include all of your recent extra-curricular activities (i.e. volunteer work, part-time work, sports, clubs, apps, personal projects)
- This information does not need to be relevant to computer science, finance or business

CONTESTS – Please participate!

- Canadian Computing Competition - February 14, 2018
- Euclid Math Contest - April 11, 2018
- Participation in the contests is *not* mandatory for admissions
- They can only *benefit* your application

APPLICATION PROCESS

HOW TO APPLY

- Applications must be made through the Ontario Universities' Application Centre's (OUAC). ouac.on.ca
- Submit your application by January 17, 2018

OFFERS OF ADMISSIONS

- All offers are conditional on final grades
- CFM offers go out in early-to-mid May – please be patient
- Offers *must be* accepted by June 1, 2018 through OUAC



TUITION AND FUNDING

CFM TUITION

- First-Year | \$4,650 per term / \$9,300 for the year
- Upper-Years | \$9,600 per term / \$19,200 for the year

FUNDING OPPORTUNITIES

- \$3,000 CFM Entrance Scholarship
- University-wide scholarships
- Bursaries awarded based on demonstrated financial need
- Government aid and loans
- Co-op starting in second year

uwaterloo.ca/student-awards-financial-aid



QUESTIONS?

CONTACT: HEATHER STEINMETZ, PROGRAM MANAGER

- Phone: 519-888-4567 x 37033
- Email: bcfm@uwaterloo.ca

WEBSITES

- CFM Program: uwaterloo.ca/future-students
- Admissions, how to apply, application deadlines: uwaterloo.ca/future-students
- Math Contests: cemc.uwaterloo.ca

THANK YOU FOR VISITING!

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