HONOURS BACHELOR OF COMMERCE (OPTION IN HEALTHCARE ANALYTICS) AND MASTER OF SCIENCE IN MANAGEMENT

Overview

Honours Bachelor of Commerce (Option in Healthcare Analytics)

Healthcare systems are undergoing unprecedented transformation fuelled by the digitization of services and investments in health information technologies. Our option in Healthcare Analytics is a field built on the crucial role that data, systems engineering, management, and organizational innovation play in improving the quality and timeliness of service delivery in a high performing healthcare system. This field answers a need to develop expertise to create the research and training capabilities required for transforming healthcare into a system that adheres to the principles of patient-centered care and participatory medicine.

This program is offered in English and in French.

Master of Science in Management (Research Project)

This exciting integrated accelerated bachelor's/master's program allows students to earn two degrees in five years. Designed for students with a strong academic record and a keen interest in conducting business research, this integrated program enables select undergraduate students to get a jump-start in their project-based master's program by completing two graduate courses during their last year of the undergraduate degree, and starting their research project in a familiar environment over the summer bridge term between the bachelor's and master's programs. This integrated program focuses on empowering students to develop their business acumen and research skills in a specialized field of study, and to contribute towards smarter decisions about policy and practice in creating a better Canada.

This program is offered in English only.

For further information on this Dual Fast-track Degree, please communicate with the Student Services Centre via undergraduate@telfer.uOttawa.ca.

Program Requirements Honours Bachelor of Commerce (Option in Healthcare Analytics)

Co-operative education is available with this program.

The French immersion stream is available with the Honours Bachelor of Commerce. The MSc in Management program is offered in English only.

Compulsory courses at the 1000 level

ADM 1300 Introduction to Business 3 Units

Total:		102 Units		
15 elective course units		15 Units		
15 elective of	course units from another faculty ¹	15 Units		
Electives				
9 optional co	ourse units in administration (ADM)	9 Units		
Optional cou	ırses			
ADM 4311	Strategic Management	3 Units		
Compulsory	courses at the 4000 level			
ADM 3318	International Business	3 Units		
ADM 3301	Operations Management	3 Units		
Compulsory courses at the 3000 level				
ADM 2381	Business Communication Skills	3 Units		
ADM 2372	Management Information Systems	3 Units		
ADM 2350	Financial Management	3 Units		
ADM 2341	Managerial Accounting	3 Units		
ADM 2337	Human Resource Management	3 Units		
ADM 2336	Organizational Behaviour	3 Units		
ADM 2320	Marketing	3 Units		
ADM 2304	Applications of Statistical Methods in Business	3 Units		
ADM 2303	Statistics for Management	3 Units		
ADM 2302	Business Analytics	3 Units		
Compulsory	courses at the 2000 level			
ENG 1131	Effective Business English	3 Units		
ECO 1104	Introduction to Microeconomics	3 Units		
ECO 1102	Introduction to Macroeconomics	3 Units		
ADM 1370	Applications of Information Technology for Business	3 Units		
ADM 1340	Financial Accounting	3 Units		
ADM 1305	Mathematics for Business	3 Units		
ADM 1301	Business and Society	3 Units		

Note(s)

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A maximum of 6 course units at the 1000 level can count towards this requirement.

Healthcare Analytics Option Courses

Total:			18 Units
	HSS 4303	Epidemiology	
	HSS 3101	Health Research: Quantitative and Qualitative Approaches	
		Introduction to Health Economics	
	BIO 4158	Applied Biostatistics	
	ADM 3308	Business Data Mining	
	ADM 3305	Business Simulation Analytics	
	6 optional co	urse units from:	6 Units
	ADM 4964	Application of Business Analytics	3 Units
	ADM 4363	Business Optimization Analytics	3 Units
	ADM 4307	Business Forecasting Analytics	3 Units
	ADM 3363	Healthcare Informatics for Managers	3 Units
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Master of Science in Management (Research Project)

(Research Project)					
Compulsory	Courses				
MGT 5200	Foundations for Quantitative Methods	3 Units			
MGT 5300	Foundations of Management	3 Units			
Concentration Courses					
18 course un	its from the chosen concentration	18 Units			
Seminar					
MGT 6191	Management Research Seminar Series ¹				
Research Pro	ject				
MGT 6997	M.Sc. Research Project	6 Units			
Total:		30 Units			
	f concentrations				
Business Ana	alytics				
MGT 5101	Multivariate Research Methods	3 Units			
MGT 5301	Predictive analytics	3 Units			
MGT 5302	Decision analytics	3 Units			
MGT 5303	Management analytics and case studies	3 Units			
6 course unit		6 Units			
MGT 7108	Optimization and Modeling ²				
	ourse from another concentration				
Marketing &	Behavioral Science				
MGT 5100	Research Design Methodologies and the Conduct of Research	3 Units			
MGT 5304	Generating marketing Insights	3 Units			
MGT 5305	Behavioural insights and interventions	3 Units			
3 course unit	s from:	3 Units			
MGT 5101	Multivariate Research Methods				
MGT 5102	Qualitative Research Methods				
3 course unit	s from:	3 Units			
MGT 5301	Predictive analytics				
MGT 5306	Recent topics in marketing				
3 course unit	s from:	3 Units			
MGT 5101	Multivariate Research Methods				
MGT 5102	Qualitative Research Methods				
Elective co	ourse from another concentration or another				
Entrepreneur	ship				
MGT 5100	Research Design Methodologies and the Conduct of Research	3 Units			
MGT 6110	Entrepreneurial Process and Opportunity Recognition	3 Units			
3 course unit	s from:	3 Units			
MGT 5101	Multivariate Research Methods				
MGT 5102	Qualitative Research Methods				
9 course unit	s from:	9 Units			
MGT 6112	Social Entrepreneurship and Innovation				
MGT 6190	Research Topics in Management				
MGT 8104	Theoretical Entrepreneurship Research				
One of the courses	Innovation Management concentration				

Innovation M	anagement			
MGT 5100	Research Design Methodologies and the Conduct of Research	3 Units		
MGT 6191	Management Research Seminar Series			
3 course unit	s from:	3 Units		
MGT 5101	Multivariate Research Methods			
MGT 5102	Qualitative Research Methods			
9 course unit	s from:	9 Units		
MGT 6112	Social Entrepreneurship and Innovation			
MGT 6160	Systems of Innovation			
MGT 6169	Recent Topics in Innovation Management			
One of the	Entrepreneurship concentration courses			
Finance				
MGT 6120	Investment and Portfolio Management	3 Units		
MGT 8107	Finance	3 Units		
12 course un	its from:	12 Units		
	Multivariate Research Methods			
MGT 6102	Financial Risk Management and Derivative Securities			
MGT 6111	Venture Capital and Private Equity			
MGT 6121	Application of Empirical Methods in Finance			
MGT 6122	Advanced Corporate Finance and Empirical Methods			
Accounting				
MGT 5100	Research Design Methodologies and the Conduct of Research	3 Units		
MGT 5102	Qualitative Research Methods	3 Units		
MGT 6126	Introduction to Qualitative and Experimental Research in Accounting	3 Units		
MGT 6127	Sustainability Accounting and Control	3 Units		
MGT 6128	Introduction to Accounting Research: Special Topics and New Developments	3 Units		
MGT 8101	Financial Accounting and Reporting	3 Units		
Organization	al Behaviour and Human Resources			
MGT 5100	Research Design Methodologies and the Conduct of Research	3 Units		
MGT 6130	Evidence-Based HROB Interventions	3 Units		
MGT 6131	Current Trends in HROB	3 Units		
MGT 8113	Fundamentals of Human Resources Management	3 Units		
3 course unit	s from:	3 Units		
MGT 5101	Multivariate Research Methods			
	Qualitative Research Methods			
Elective cours	se from another concentration ³	3 Units		
Note(s)				
1				
Students must attend at least 4 seminars during their studies. 2				
MGT 7108 can be replace by an elective course from another concentration or another faculty.				

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This requirement may be fulfilled by MGT 5101, MGT 5102 or a course in another concentration or another faculty.

Specific requirements for the master's program

Research Project

The Research Project (RP) is a capstone program component that requires students to conduct applied research with a partnering organization or as part of a Telfer faculty member's on-going research project. Students must show the ability to work independently (analysis and report writing) and apply knowledge gained in the MSc seminars to a well-defined practical problem. It is not required that the RP makes an original contribution to scholarly literature. Students are discouraged from collecting primary (original) data from human participants given the time taken to receive ethics approval and the short time frame given to complete the RP (3-4 months).

The RP can be theoretical, such as a literature review in which the student demonstrates how the existing academic literature can provide practical insight into a specific problem. It can also be empirical by using primary data (previously collected by a supervising faculty member) or secondary data (e.g., publicly accessible databases; results reported in published or unpublished research papers) to answer relatively simple research questions. Examples could be a replication of previously published research and a focused meta-analysis. Given the program's focus on facilitating evidence-based practice, the RP's central aim is giving students the opportunity to use their advanced research skills for informing practice within one organization or several organizations dealing with the same problem.

RP topics must be approved by the Telfer faculty member(s) responsible for coordinating RPs in the students' concentration. The completed RPs will be evaluated (pass/fail) by the same faculty member(s).

Co-op Option

The co-op option is only available to students enrolled in the the research project option.

Co-op students must enroll full-time and complete two work terms:

- ADM 6001
- ADM 6002

Management Research Seminar Series

Students must enroll continuously in Management Research Seminar Series (MGT 6191) from the beginning of their program and must attend at least four seminars in the series if they are in the one-year or CO-OP project-based options, and at least six seminars in the series if they are in the two-year thesis-based option. The notation "CTN" (for continuing activity) will be entered for each term until successful completion of the seminar requirements. The program director will confirm attendance and active participation.

Duration of Program

The one-year with Research Project option can be completed in three terms or approximately 12 months. The maximum time allowed for completion of this option is two years.

The CO-OP with Research Project option can be completed in either five or six terms (approximately 20 or 24 months). Students preferring to

complete this option in five terms are encouraged to take more than two courses during the first winter term. Also, completion within five terms requires that students get approval for their project's topic and scope by the end of the second fall term. The maximum time allowed for completion of this option is four years.

The two-year with thesis option can be completed in six terms or approximately 24 months but can also be more quickly. The maximum time allowed for completion of this option is four years.