

# HONOURS BACHELOR OF COMMERCE (OPTION IN HEALTHCARE ANALYTICS)

## Overview

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.

## Program Requirements

Co-operative education is available with this program.

The French immersion stream is available with this program.

Requirements for this program have been modified. Please consult the 2024-2025 calendars (<http://catalogue.uottawa.ca/en/archives/>) for the previous requirements.

## Compulsory Core Courses

ADM 1300	Introduction to Business	3 Units
ADM 1301	Business and Society	3 Units
ADM 1305	Mathematics for Business	3 Units
ADM 1340	Financial Accounting	3 Units
ADM 1370	Applications of Information Technology for Business	3 Units
ECO 1102	Introduction to Macroeconomics	3 Units
ECO 1104	Introduction to Microeconomics	3 Units
ENG 1131	Effective Business English	3 Units
ADM 2302	Business Analytics	3 Units
ADM 2303	Statistics for Management	3 Units
ADM 2304	Applications of Statistical Methods in Business	3 Units
ADM 2320	Marketing	3 Units
ADM 2336	Organizational Behaviour	3 Units
ADM 2337	Human Resource Management	3 Units
ADM 2341	Managerial Accounting	3 Units
ADM 2350	Financial Management	3 Units
ADM 2372	Management Information Systems	3 Units
ADM 2381	Business Communication Skills	3 Units
ADM 3301	Operations Management	3 Units
ADM 3318	International Business	3 Units
ADM 4311	Strategic Management	3 Units
<b>Total:</b>		<b>63 Units</b>

## Healthcare Analytics Option

ADM 3363	Healthcare Informatics for Managers	3 Units
ADM 4307	Business Forecasting Analytics	3 Units
ADM 4363	Business Optimization Analytics	3 Units
ADM 4964	Application of Business Analytics	3 Units
6 optional course units from:		6 Units
ADM 3305	Business Simulation Analytics	
ADM 3308	Business Data Mining	
BIO 4158	Applied Biostatistics	
ECO 3125	Introduction to Health Economics	
HSS 3101	Health Research: Quantitative and Qualitative Approaches	
HSS 4303	Epidemiology	
<b>Total:</b>		<b>18 Units</b>

## Elective Courses Options

9 optional course units in administration (ADM) <sup>1</sup>	9 Units
15 elective course units from another faculty <sup>2</sup>	15 Units
15 elective course units	15 Units
<b>or</b>	
one additional option (18 course units) from the list of additional options below	18 Units
15 elective course units from another faculty <sup>2</sup>	15 Units
6 elective course units	6 Units
<b>or</b>	
9 optional course units in administration (ADM)	9 Units
one additional minor (30 course units)	30 Units
<b>Total:</b>	<b>39 Units</b>

<sup>1</sup>

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

## List of Additional Options Accounting Option

ADM 2342	Intermediate Accounting I	3 Units
ADM 3340	Intermediate Accounting II	3 Units
ADM 3345	Taxation I	3 Units
ADM 3346	Cost Accounting	3 Units
6 course units from:		6 Units
ADM 3349	Auditing Theory	
ADM 3350	Corporate Finance	
ADM 3360	Business Law	
ADM 4340	Cases Studies in Accounting	
ADM 4341	Advanced Auditing	
ADM 4343	Data Analytics in Accounting	
ADM 4344	Taxation II	
ADM 4345	Management Control Systems	
ADM 4346	Auditing in a digital environment	
ADM 4348	Special Topics in Financial Accounting	

ADM 4349 Advanced Accounting	
<b>Total:</b>	<b>18 Units</b>

## Business Technology Management Option

ADM 3308 Business Data Mining	3 Units
ADM 3378 Emerging Topics in Management Information Systems	3 Units
ADM 3379 Systems Analysis, Development, and Performance	3 Units
ADM 4377 Digital Enterprise Systems and Strategies	3 Units
6 optional course units from:	6 Units
ADM 3303 Hands-On Coding for Business	
ADM 3305 Business Simulation Analytics	
ADM 4103 Project Management	
ADM 4307 Business Forecasting Analytics	
ADM 4376 Cybersecurity Management	
ADM 4378 Business Communications Networks	
ADM 4379 Management and Implementation of Web Technologies in Organizations	
<b>Total:</b>	<b>18 Units</b>

## Entrepreneurship Option

ADM 2313 The Entrepreneurial Society	3 Units
ADM 4315 Strategic Entrepreneurship	3 Units
ADM 4316 Management of Innovation	3 Units
3 course units from:	3 Units
ADM 3313 New Venture Creation	
ADM 3315 Social Entrepreneurship	
6 course units from:	6 Units
ADM 4113 Advising Family Business	
ADM 4310 Managing Science and Technology Enterprises	
ADM 4329 Personal Selling	
AHL 3300 Creativity and Innovation	
<b>Total:</b>	<b>18 Units</b>

## Finance Option

ADM 2352 Finance Theory	3 Units
ADM 3350 Corporate Finance	3 Units
ADM 4350 Equity Valuation	3 Units
ADM 4355 Finance, Ethics and Social Responsibility	3 Units
6 course units from:	6 Units
ADM 3351 Fixed Income Investments	
ADM 3352 Portfolio Management	
ADM 3354 Financial Modeling	
ADM 3355 Fintech	
ADM 4351 Options and Futures	
ADM 4352 Advanced Corporate Finance	
ADM 4354 International Financial Management	
ADM 4356 Alternative Investments and Risk Management	

ADM 4358 Mergers and Acquisitions	
<b>Total:</b>	<b>18 Units</b>

## Human Resources Management Option

ADM 3333 Staffing Organizations	3 Units
ADM 3334 Industrial Relations	3 Units
ADM 3337 Compensation Administration	3 Units
ADM 4336 Occupational Health and Safety	3 Units
ADM 4338 International Training and Development for Sustainability	3 Units
ADM 4339 Strategic Human Resources Planning	3 Units
<b>Total:</b>	<b>18 Units</b>

Note(s)

Please note that all of the HR option courses have been accredited by the HRPAO as contributing academic credits toward the CHRP designation.

## International Management Option

ADM 3319 Cross-Cultural Management	3 Units
ADM 4318 Multinational Business Policy	3 Units
12 course units from:	12 Units
ADM 3317 Varieties of Capitalism: from Medieval Merchants to Modern Multinationals	
ADM 3358 Multinational Business Finance	
ADM 4319 Strategic Management in Developing and Emerging Economies	
ADM 4328 International Marketing	
ADM 4338 International Training and Development for Sustainability	
Third language course (other than English or French) *	
Mandatory International Exchange	15 Units
<b>Total:</b>	<b>33 Units</b>

Note(s)

\*

No culture courses are allowed for this requirement.

### Mandatory Requirement: International Exchange

Students in the International Management option must complete at least 12 of the 120-unit program requirements abroad as part of an international exchange with one of the international partner institutions of the Telfer School of Management. At least one and at most two full-time semester(s) of study abroad (minimum 12 units per semester abroad) must be completed. During the exchange, students must take business courses or third language courses. The normal load of an international exchange study session is 15 units.

Units completed as part of the international exchange session(s) may count towards partial or complete fulfillment of:

a) any of the 12 elective units listed under the International Management option requirements, provided the courses offered at the international partner institution are considered equivalent to the corresponding Telfer School of Management courses;

b) the 15 course units in administration (ADM);

c) the 15 course units from another faculty.

## Management Option

ADM 4317	Leadership, Strategy and Sustainability	3 Units
15 course units from:		15 Units
ADM 3302	Supply Chain Management	
ADM 3316	Competitive Intelligence	
ADM 3317	Varieties of Capitalism: from Medieval Merchants to Modern Multinationals	
ADM 3338	Principles of Negotiation	
ADM 4103	Project Management	
ADM 4312	Management in the New Economy	
ADM 4316	Management of Innovation	
ADM 4319	Strategic Management in Developing and Emerging Economies	
ADM 4358	Mergers and Acquisitions	
<b>Total:</b>		<b>18 Units</b>

Note(s)

The Management option will be organized in terms of three themes. It is strongly recommended that students choose at least one course (3 units) from each theme:

1. Managing for continuous performance improvement: ADM 3316, ADM 4103, ADM 4316;
2. Managing outwards: the firm in its environment: ADM 3302, ADM 4103, ADM 4316;
3. Management past and future: ADM 3317, ADM 4312.

## Marketing Option

ADM 3321	Consumer Behaviour	3 Units
ADM 3322	Services Marketing	3 Units
ADM 3323	Market Research	3 Units
ADM 3326	Advertising and Sales Promotion Management	3 Units
ADM 4322	Marketing Strategy	3 Units
ADM 4325	Promotional Planning Practicum	3 Units
<b>Total:</b>		<b>18 Units</b>