Health Sciences

This section presents the requirements for programs in:

- M.Sc. Health Sciences
- M.Sc. Health: Science, Technology and Policy
- M.Sc. Health Sciences with Collaborative Specialization in Data Science
- Graduate Diploma in Health: Science, Technology and Policy
- Ph.D. Health Sciences

Program Requirements

M.Sc. Health Sciences (5.0 credits)

Requirements:		
1. 1.0 credit in:		1.0
HLTH 5901 [0.5]	Advanced Topics in Interdisciplinary Health Sciences	
HLTH 5902 [0.5]	Seminars in Interdisciplinary Health Sciences for MSc	
2. Completion of:		0.0
HLTH 5905 [0.0]	Final Research Seminar Presentation for MSc	
3. 4.0 credits in:		4.0
HLTH 5909 [4.0]	MSc Thesis	
4. Twice-yearly meetings with the thesis Graduate Advisory Committee, with students meeting a level of progress as determined by the Committee.		
Total Credits		5.0

Note: the final research seminar presentation must be completed within one month of the thesis defence.

M.Sc. Health: Science, Technology and Policy (6.0 credits)

Requirements:

1.	3.5 credits in:		3.5
	HLTH 5100 [0.5]	Fundamentals of Research Methods	
	HLTH 5150 [0.5]	Statistics for Health Sciences	
	HLTH 5201 [0.5]	Fundamentals of Policy I: Policy Analysis	
	HLTH 5300 [0.5]	Knowledge Translation	
	HLTH 5350 [0.5]	New Health Technologies	
	HLTH 5401 [0.5]	Interdisciplinary Problems in Health	
	HLTH 5402 [0.5]	Biological and Social Fundamentals of Health	
2.	1.0 credit from:		1.0
	HLTH 5504 [1.0]	Interdisciplinary Health Research Project - Group	
	HLTH 5505 [1.0]	Interdisciplinary Health Research Project – Individual	
3.	1.5 credits from:		1.5
	HLTH selected topic specific relevance to	elective courses focusing on areas to the health sector	
	HLTH 5151 [0.5]	Principles of Epidemiology	
	HLTH 5202 [0.5]	Fundamentals of Policy II: The Health Sector	

	HLTH 5600 [0.25]	Special Topics in Biostatistics and Epidemiology
	HLTH 5601 [0.25]	Special Topics in Health Policy and Administration
	HLTH 5602 [0.25]	Special Topics: Social and Behavioural
	HLTH 5603 [0.25]	Special Topics in Environmental Health
	HLTH 5604 [0.25]	Special Topics in the Science of Disease
	HLTH 5605 [0.25]	Special Topics: Engineering, Design and Computer Science
	HLTH 5701 [0.5]	Special Topics in Health Policy and Administration
	HLTH 5702 [0.5]	Special Topics: Social and Behavioural
	HLTH 5703 [0.5]	Special Topics in Environmental Health
	HLTH 5704 [0.5]	Special Topics in the Science of Disease
	HLTH 5705 [0.5]	Special Topics: Engineering, Design and Computer Science
	HLTH 5800 [0.5]	Directed Studies in Health: Science, Technology and Policy
	HLTH 5801 [0.5]	Health: Science, Technology and Policy Practicum
wi of sp	th the guidance and graduate studies an	other graduate programs, selected permission of the supervisor d with the permission of the equiring the prior completion of es include:
	BIOL 5407 [0.5]	Biostatistics I
	BIOL 5515 [0.5]	Bioinformatics
	BIOL 5516 [0.5]	Applied Bioinformatics
	BIOL 6406 [0.5]	Genetic Toxicology
	BIOM 5100 [0.5]	Biomedical Instrumentation
	CHEM 5708 [0.5]	
		Principles of Toxicology Chemical Toxicology
	CHEM 5709 [0.5] COMS 5206 [0.5]	Chemical Toxicology Communication, Culture, Regulation
	CHEM 5709 [0.5]	Chemical Toxicology Communication, Culture,
	CHEM 5709 [0.5] COMS 5206 [0.5]	Chemical Toxicology Communication, Culture, Regulation
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5] PADM 5229 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy The Health of Populations
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5] PADM 5229 [0.5] PADM 5817 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy The Health of Populations Health Policy in Developing Countries
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5] PADM 5229 [0.5] PADM 5817 [0.5] PHIL 5000 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy The Health of Populations Health Policy in Developing Countries Special Topic in Philosophy
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5] PADM 5229 [0.5] PADM 5817 [0.5] PHIL 5000 [0.5] PHYS 5204 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy The Health of Populations Health Policy in Developing Countries Special Topic in Philosophy Physics of Medical Imaging
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5] PADM 5229 [0.5] PADM 5817 [0.5] PHIL 5000 [0.5] PHYS 5204 [0.5] PSYC 5209 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy The Health of Populations Health Policy in Developing Countries Special Topic in Philosophy Physics of Medical Imaging Topics in Health Psychology
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5] PADM 5229 [0.5] PADM 5817 [0.5] PHIL 5000 [0.5] PHYS 5204 [0.5] PSYC 5209 [0.5] SOCI 5209 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy The Health of Populations Health Policy in Developing Countries Special Topic in Philosophy Physics of Medical Imaging Topics in Health Psychology Sociology of Science and Technology
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5] PADM 5229 [0.5] PADM 5817 [0.5] PHIL 5000 [0.5] PHYS 5204 [0.5] PSYC 5209 [0.5] SOCI 5209 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy The Health of Populations Health Policy in Developing Countries Special Topic in Philosophy Physics of Medical Imaging Topics in Health Psychology Sociology of Science and Technology Mental Health
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5] PADM 5229 [0.5] PADM 5817 [0.5] PHIL 5000 [0.5] PHYS 5204 [0.5] PSYC 5209 [0.5] SOCI 5209 [0.5] SOWK 5302 [0.5] STAT 5600 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy The Health of Populations Health Policy in Developing Countries Special Topic in Philosophy Physics of Medical Imaging Topics in Health Psychology Sociology of Science and Technology
	CHEM 5709 [0.5] COMS 5206 [0.5] COMP 5308 [0.5] INAF 5705 [0.5] INAF 5706 [0.5] NEUR 5201 [0.5] PADM 5221 [0.5] PADM 5222 [0.5] PADM 5229 [0.5] PADM 5817 [0.5] PHIL 5000 [0.5] PHYS 5204 [0.5] PSYC 5209 [0.5] SOCI 5209 [0.5]	Chemical Toxicology Communication, Culture, Regulation Topics in Medical Computing Global Social Policy Global Health Policy Foundations in Statistics for Neuroscience Health Policy in Canada Economics and Health Policy The Health of Populations Health Policy in Developing Countries Special Topic in Philosophy Physics of Medical Imaging Topics in Health Psychology Sociology of Science and Technology Mental Health

STAT 5602 [0.5]	Analysis of Categorical Data	
Total Credits		6.0

M.Sc. Health Sciences with Collaborative Specialization in Data Science (5.5 credits)

Requirements (5.5 credits):

rtequirements (0.0 ci	euitaj.	
1. 1.0 credits in:		1.0
HLTH 5901 [0.5]	Advanced Topics in Interdisciplinary Health Sciences	
HLTH 5902 [0.5]	Seminars in Interdisciplinary Health Sciences for MSc	
2. 0.5 credits in:		0.5
DATA 5000 [0.5]	Data Science Seminar	
3. Completion of:		
HLTH 5905 [0.0]	Final Research Seminar Presentation for MSc (must be completed within one month of the thesis defence)	
4. 4.0 credits in:		4.0
HLTH 5909 [4.0]	MSc Thesis	
5. Twice-yearly meetings with the thesis Graduate Advisory Committee, with students meeting a level of progress as determined by the Committee.		

Total Credits 5.5

Graduate Diploma in Health: Science, Technology and Policy (2.0 credits)

The Diplomas are designed to be completed in one year. However, as it is understood that most students in the Diploma programs will either be working or full-time students in another graduate program, students may take the program on either a part-time or full-time basis.

Type 2 Diploma

For graduate students currently enrolled in other Carleton graduate programs.

Requirements:

1.	1.5 credits in:		1.5
	HLTH 5100 [0.5]	Fundamentals of Research Methods	
	HLTH 5201 [0.5]	Fundamentals of Policy I: Policy Analysis	
	HLTH 5300 [0.5]	Knowledge Translation	
2.	0.5 credit in elective	ves from either a or b:	0.5
		opic elective courses focusing on evance to the health sector:	
	HLTH 5150 [0.5]	Statistics for Health Sciences	
	HLTH 5151 [0.5]	Principles of Epidemiology	
	HLTH 5202 [0.5]	Fundamentals of Policy II: The Health Sector	
	HLTH 5350 [0.5]	New Health Technologies	
	HLTH 5401 [0.5]	Interdisciplinary Problems in Health	
	HLTH 5402 [0.5]	Biological and Social Fundamentals of Health	
	HLTH 5600 [0.25]	Special Topics in Biostatistics and Epidemiology	
	HLTH 5601 [0.25]	Special Topics in Health Policy and Administration	

HLTH 5602 [0.25]	Special Topics: Social and Behavioural
HLTH 5603 [0.25]	Special Topics in Environmental Health
HLTH 5604 [0.25]	Special Topics in the Science of Disease
HLTH 5605 [0.25]	Special Topics: Engineering, Design and Computer Science
HLTH 5700 [0.5]	Special Topics in Biostatistics and Epidemiology
HLTH 5701 [0.5]	Special Topics in Health Policy and Administration
HLTH 5702 [0.5]	Special Topics: Social and Behavioural
HLTH 5703 [0.5]	Special Topics in Environmental Health
HLTH 5704 [0.5]	Special Topics in the Science of Disease
HLTH 5705 [0.5]	Special Topics: Engineering, Design and Computer Science
selected with the gu supervisor of gradu	by other graduate programs, uidance and permission of the late studies and with the permission ram and requiring the prior equisites.

Total Credits 2.0

Knowledge Translation

0.5

Type 3 Diploma

For individuals currently employed, or with the goal of employment in the health sector, who are not currently registered in another Carleton graduate program.

Requirements: 1. 0.5 credit in:

HLTH 5300 [0.5]

112111 0000 [0.0]	Tarlowicage Trailolation	
2. 1.5 credits in elect	tives from either a, b or c:	1.5
a. HLTH 5201 (recommended) have a strong policy b	mended for students who do not ackground)	
b. HLTH selected topic of specific relevance to	c elective courses focusing on areas of the health sector:	
HLTH 5100 [0.5]	Fundamentals of Research Methods	
HLTH 5150 [0.5]	Statistics for Health Sciences	
HLTH 5151 [0.5]	Principles of Epidemiology	
HLTH 5202 [0.5]	Fundamentals of Policy II: The Health Sector	
HLTH 5350 [0.5]	New Health Technologies	
HLTH 5401 [0.5]	Interdisciplinary Problems in Health	
HLTH 5402 [0.5]	Biological and Social Fundamentals of Health	
HLTH 5600 [0.25]	Special Topics in Biostatistics and Epidemiology	
HLTH 5601 [0.25]	Special Topics in Health Policy and Administration	
HLTH 5602 [0.25]	Special Topics: Social and Behavioural	
HLTH 5603 [0.25]	Special Topics in Environmental Health	
HLTH 5604 [0.25]	Special Topics in the Science of Disease	
HLTH 5605 [0.25]	Special Topics: Engineering, Design and Computer Science	

HLTH 5700 [0.5]	Special Topics in Biostatistics and Epidemiology
HLTH 5701 [0.5]	Special Topics in Health Policy and Administration
HLTH 5702 [0.5]	Special Topics: Social and Behavioural
HLTH 5703 [0.5]	Special Topics in Environmental Health
HLTH 5704 [0.5]	Special Topics in the Science of Disease
HLTH 5705 [0.5]	Special Topics: Engineering, Design and Computer Science

c. Courses offered by other graduate programs, selected with the guidance and permission of the supervisor of graduate studies and with the permission of the specific program and requiring the prior completion of prerequisites. No more than 0.5 credit can be taken outside of the department.

Total Credits 2.0

Ph.D. Health Sciences (1.5 credits)

Requirements:

1. 1.5 credits in:		1.5
HLTH 5901 [0.5]	Advanced Topics in Interdisciplinary Health Sciences	
HLTH 6902 [0.5]	Seminars in Interdisciplinary Health Sciences	
HLTH 6903 [0.5]	Grant Proposals and Ethics	
2. Completion of:		0.0
HLTH 6904 [0.0]	Mid-Program Defence	
HLTH 6905 [0.0]	Final Research Seminar Presentation	
3. 0.0 credits in:		0.0
HLTH 6909 [0.0]	PhD Thesis	
4. Trades resemble assessment	and with the said Consultrate. Advisory	

4. Twice-yearly meetings with thesis Graduate Advisory Committee, with students reaching a level of satisfaction as determined by the Committee

Total Credits 1.5

Note: If the student fails to satisfy the requirements of HLTH 6904, he/she will be withdrawn from the program. The final research seminar presentation must be completed within one month of the thesis defence.

Regulations

See the General Regulations section of this Calendar.

All candidates are required to obtain a grade of B or higher in each course in the program.

M.Sc. Health: Science, Technology and Policy

Full-time candidates in the master's program are expected to complete their degree requirements within five terms (20 months) of first registration for full-time study.

Regulations

See the General Regulations section of this Calendar.

All candidates are required to obtain a grade of B or higher in each course in the program.

Regulations

See the General Regulations section of this Calendar.

All candidates are required to obtain a grade of B- or higher in each course in the program.

Admission

Applicants for the master's program will normally hold an Honours undergraduate degree or equivalent professional degree. Normally, an average of B+ or higher is required for admission. At least one university-level course in statistics is also required for admission. Applicants judged to be generally acceptable but deficient in some aspect of preparation may be asked to complete course-work in addition to the program requirements. In addition to transcripts and letters of reference, application packages will include a statement of interest explaining how the applicant's career goals are aligned with the program and a statement of expertise, including previous research and/or work experience. The admissions committee will also consider the requirement for an appropriate balance of academic backgrounds to provide the disciplinary expertise required for the group projects, which are designed to represent a mixed-discipline workplace in the health sector.

Students whose first language is not English, or who have not completed a previous degree at an English speaking university, must demonstrate an adequate command of English. Please refer to section 3.6 of the general regulations in the Graduate Calendar.

Students may receive advanced standing with transfer of credit for up to 1.5 credits. Advanced standing will be considered only for core courses. It will be determined on an individual basis in consultation with the M.Sc Supervisor and the Faculty of Graduate and Postdoctoral Affairs and pursuant to Section 6.1 of the General Regulations section of this Calendar. In general, a grade of B+ or higher is necessary in the equivalent courses in order to receive advanced standing.

Note: students in the Diploma programs are not eligible to receive university funding.

Admission

The normal requirement for admission into the Ph.D. program is an M.Sc. degree in a relevant field. Students who are in the Health Sciences M.Sc. program may be admitted to the Ph.D. program if they show outstanding academic performance and demonstrate significant promise for advanced research, upon recommendation of the student's Graduate Advisory Committee and approval by the Graduate Advisor.

Admission

Applicants must have a bachelor's degree (or equivalent). Normally, an average of B+ or higher is required for admission. A university level course in statistics is also required for admission.

Students whose first language is not English, or who have not completed a previous degree at an English speaking university, must demonstrate an adequate command of English. Please refer to section 3.6 of the general regulations in the Graduate Calendar.

Note: students in the Diploma programs are not eligible to receive university funding through the program.

Health Sciences (HLTH) Courses

HLTH 5100 [0.5 credit]

Fundamentals of Research Methods

Experimental design, statistical analysis and interpretation of results in health science research, principles and methods of epidemiology, fundamentals of research ethics.

Includes: Experiential Learning Activity Prerequisite(s): university-level statistics.

HLTH 5101 [0.0 credit]

Statistical Software and its Application to Health Sciences Primer

Introduction to statistical softwares used to analyze health research data. Data management topics include data entry, manipulation, and elementary statistical analyses using SAS, SPSS, Stata and R. Other topics include privacy/maintaining security of health datasets. For students without strong backgrounds in biostatistics/data handling.

Includes: Experiential Learning Activity

HLTH 5150 [0.5 credit] Statistics for Health Sciences

Statistical methods commonly used in analyses of health data. This applied course covers topics related to descriptive and graphical methods, tests of hypotheses in both paired and independent samples, linear regression, survival analysis, and logistic regression.

Includes: Experiential Learning Activity
Lecture three hours a week, lab/workshop three hours a
week.

HLTH 5151 [0.5 credit] Principles of Epidemiology

Introduction to epidemiologic concepts and methods. Different types of epidemiological study designs. Fundamental concepts of: definitions and measures of disease frequency and effects, causality, bias, sample size, confounding and interaction.

Includes: Experiential Learning Activity

HLTH 5201 [0.5 credit]

Fundamentals of Policy I: Policy Analysis

Policy analysis and policy processes with an emphasis on the stages of the policy process, as well as the influences of institutions, ideas and interests.

HLTH 5202 [0.5 credit]

Fundamentals of Policy II: The Health Sector

Canadian health policies and programs with emphasis on the economics, politics and public administration of the healthcare sector.

HLTH 5300 [0.5 credit] Knowledge Translation

The application of knowledge translation in the formulation of policy and the development of skills required to maximize the impact of scientific findings through real world programs and policies and communication skills for diverse audiences.

Precludes additional credit for NEUR 5801. Also offered at the undergraduate level, with different requirements, as HLTH 4701, for which additional credit is

precluded.

HLTH 5350 [0.5 credit] New Health Technologies

Overview of new and emerging health technologies, including medical and assistive devices, diagnostics and screening, genetics, reproduction, tissue regeneration, imaging, and health informatics. Health technology assessment methods and issues. Regulatory, ethical and social implications; considerations in the developing world. Includes: Experiential Learning Activity

Also offered at the undergraduate level, with different requirements, as HLTH 4102, for which additional credit is precluded.

HLTH 5401 [0.5 credit]

Interdisciplinary Problems in Health

Development of an understanding of the scope and interdisciplinary nature of issues that impact the health of Canadians is the focus of this course.

HLTH 5402 [0.5 credit]

Biological and Social Fundamentals of Health

What comprises a healthy body and mind? This course addresses the psycho-social and biological mechanisms that may interact to determine health outcomes. The course examines complex relationships between social, environmental, and biological factors underlying some of the most important and emerging health concerns today.

HLTH 5403 [0.5 credit] Host-Pathogen Interactions

Advanced cellular and molecular mechanisms governing host-pathogen interactions and their contribution to disease. Exploration of immune signaling and recognition, virulence factors, antimicrobial resistance and research techniques used in this field.

Prerequisite(s): Permission of the department. Also offered at the undergraduate level, with different requirements, as HLTH 4304, for which additional credit is precluded.

HLTH 5501 [2.0 credits]

Collaborative Group Research Project

Student teams, supervised by a cross-disciplinary team of faculty, will collaborate on a project that addresses a real-world health concern.

Includes: Experiential Learning Activity

Prerequisite(s): HLTH 5400.

HLTH 5504 [1.0 credit]

Interdisciplinary Health Research Project - Group

Student teams will collaborate on a research project that addresses a real-world health concern, supervised by a cross-disciplinary team of faculty. Students must be continually registered in this course throughout their degree program (five terms.).

Includes: Experiential Learning Activity
Precludes additional credit for HLTH 5502 (no longer offered), HLTH 5503(no longer offered), HLTH 5505.

HLTH 5505 [1.0 credit]

Interdisciplinary Health Research Project - Individual

An independent research project that addresses a realworld health concern, supervised by a faculty member and advised by a cross-disciplinary team of experts. Students must be continually registered in this course throughout their degree program (five terms).

Includes: Experiential Learning Activity
Precludes additional credit for HLTH 5502(no longer offered), HLTH 5503(longer offered), HLTH 5504.
Prerequisite(s): permission of the Faculty supervisor and the Department of Health Sciences.

HLTH 5600 [0.25 credit]

Special Topics in Biostatistics and Epidemiology

Selected topics in biostatistics and epidemiology, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

Includes: Experiential Learning Activity

HLTH 5601 [0.25 credit]

Special Topics in Health Policy and Administration

Selected topics in health policy and administration, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5602 [0.25 credit]

Special Topics: Social and Behavioural

Selected topics in the social and behavioural sciences, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5603 [0.25 credit]

Special Topics in Environmental Health

Selected topics in environmental health, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5604 [0.25 credit]

Special Topics in the Science of Disease

Selected topics in the science of disease, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5605 [0.25 credit]

Special Topics: Engineering, Design and Computer Science

Selected topics in applications of engineering, design or computer science in health, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5700 [0.5 credit]

Special Topics in Biostatistics and Epidemiology

Selected topics in biostatistics and epidemiology, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

Includes: Experiential Learning Activity

HLTH 5701 [0.5 credit]

Special Topics in Health Policy and Administration

Selected topics in health policy and administration, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5702 [0.5 credit]

Special Topics: Social and Behavioural

Selected topics in the social and behavioural sciences, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5703 [0.5 credit]

Special Topics in Environmental Health

Selected topics in environmental health, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5704 [0.5 credit]

Special Topics in the Science of Disease

Selected topics in the science of disease, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5705 [0.5 credit]

Special Topics: Engineering, Design and Computer Science

Selected topics in applications of engineering, design or computer science in health, focusing on areas of specific relevance to the health sector, not available in regular program offerings. These courses are designed to provide depth of expertise and/or specific skills relevant to the workplace.

HLTH 5800 [0.5 credit]

Directed Studies in Health: Science, Technology and Policy

One-to-one instruction in selected aspects of specialized Health: Science and Technology subjects not covered by other graduate courses. Students may not take this course from their project supervisor(s), and are limited to one directed studies course per program.

Prerequisite(s): permission of the director of Health: Science, Technology and Policy.

HLTH 5801 [0.5 credit]

Health: Science, Technology and Policy Practicum

This practicum supports students in gaining relevant and practical experience through applying course learning at approved organizations. Students are responsible for arranging the placement with an external partner where the practicum will be held, preparing a learning contract, and completing a field-based project deliverable.

Includes: Experiential Learning Activity

Prerequisite(s): Completion of two semesters of the MSc in HSTP program, permission of the department and at the discretion of the practicum supervisor. Students may not be supervised by their MSc research supervisor(s) and are limited to one practicum per program.

HLTH 5901 [0.5 credit]

Advanced Topics in Interdisciplinary Health Sciences

Discussion of current health problems and exploration of innovative interdisciplinary solutions. Development of skills required to perform critical analyses of health research to evaluate the quality, interpret the findings, and assess the impact of health sciences literature across disciplines.

HLTH 5902 [0.5 credit]

Seminars in Interdisciplinary Health Sciences for MSc

Development of scientific communication skills through attendance at interdisciplinary seminars and by the student presenting a seminar on their own thesis research. Topics have specific or broad relevance to health sciences. Graded SAT/UNS.

HLTH 5905 [0.0 credit]

Final Research Seminar Presentation for MSc

Final seminar of MSc thesis research. Seminar presentation should occur within one month of the final oral thesis defence.

Includes: Experiential Learning Activity

HLTH 5909 [4.0 credits]

MSc Thesis

Includes: Experiential Learning Activity

HLTH 6902 [0.5 credit]

Seminars in Interdisciplinary Health Sciences

Development of scientific communication skills through attendance at interdisciplinary seminars and by the student presenting a seminar on their own thesis research. Topics have specific or broad relevance to health sciences. Graded SAT/UNS.

HLTH 6903 [0.5 credit] Grant Proposals and Ethics

Advanced course in writing successful grant proposals in Tri-Council (CIHR, NSERC, SSHRC) formats. Ethics associated with conducting health sciences research, including the preparation of ethics proposals for human and animal studies in health sciences research. Includes: Experiential Learning Activity

HLTH 6904 [0.0 credit] Mid-Program Defence

Departmental seminar and Graduate Advisory Committee meeting on PhD research including results to date and future research aims and directions, and on field-specific knowledge.

Includes: Experiential Learning Activity

HLTH 6905 [0.0 credit]

Final Research Seminar Presentation

Final seminar of PhD thesis research. Seminar presentation should occur within one month of the final oral thesis defence.

Includes: Experiential Learning Activity

HLTH 6909 [8.5 credits]

PhD Thesis

Includes: Experiential Learning Activity