

# Health: Science, Technology and Policy (HLTH)

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## 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.

Prerequisite(s): university-level statistics.

### 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.

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.

### 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.

Prerequisite(s): HLTH 5100, HLTH 5200.

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. 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 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.

Prerequisite(s): HLTH 5400.

### HLTH 5502 [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).

Precludes additional credit for HLTH 5503.

### HLTH 5503 [1.0 credit]

#### Interdisciplinary Health Research Project – Individual

An independent research project that addresses a real-world 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).

Precludes additional credit for HLTH 5502.

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.

### 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.

**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 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.

**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.

**HLTH 5909 [4.0 credits]****MSc Thesis**

**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.

**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.

**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.

**HLTH 6909 [8.5 credits]****PhD Thesis**

**Summer session:** some of the courses listed in this Calendar are offered during the summer. Hours and scheduling for summer session courses will differ significantly from those reported in the fall/winter Calendar. To determine the scheduling and hours for summer session classes, consult the class schedule at [central.carleton.ca](http://central.carleton.ca)

Not all courses listed are offered in a given year. For an up-to-date statement of course offerings for the current session and to determine the term of offering, consult the class schedule at [central.carleton.ca](http://central.carleton.ca)