

# HONOURS BACHELOR OF HEALTH SCIENCES -TECHNOLOGIES AND INNOVATION IN HEALTHCARE OPTION

The Honours Bachelor of Health Sciences program is defined by its integrative approach for studying health. Students are provided with a biosciences background, knowledge of quantitative and qualitative methodologies, along with an interdisciplinary approach to study the determinants of health. This unique academic program allows students to discover innovative ways to examine, measure and unravel complex health problems at all life stages, in Canada and around the world.

The Technologies and Innovation in Healthcare option will provide students with theoretical knowledge and applied skills to examine the applications and limitations of health technologies. Upon completion of this option, students will be able to evaluate the utility of health technologies including computer-assisted applications to both clinical research and health services delivery, demonstrate skills in health technology assessment methodologies and critically appraise the social and ethical implications of health technologies.

Graduates will be well-prepared to undertake health-related MSc programs or pursue careers in public or private health agencies, non-governmental health organizations or in community health programs. Students are provided with the necessary foundation further studies in medicine, rehabilitation studies, dentistry or pharmacy. Our interdisciplinary focus enhances the quality and maturity of future clinicians and health professionals.

This program is offered in English and in French.

## Program Requirements

The French immersion stream is available with this program.

### Compulsory courses at the 1000 level

ANP 1105	Human Anatomy and Physiology I	3 Units
ANP 1106	Human Anatomy and Physiology II	3 Units
BIO 1140	Introduction to Cell and Molecular Biology	3 Units
CHM 1311	Principles of Chemistry	3 Units
ENG 1100	Workshop in Essay Writing	3 Units
HSS 1100	Microbiology and Immunology	3 Units
HSS 1101	Determinants of Health	3 Units
PSY 1101	Introduction to Psychology: Foundations	3 Units
SOC 1101	Principles of Sociology	3 Units

### Compulsory courses at the 2000 level

HSS 2102	Communication and Health	3 Units
HSS 2305	Molecular Mechanisms of Disease	3 Units
HSS 2321	Sociopolitical and Economic Perspectives in Health	3 Units
HSS 2382	Quantitative Methods in Health Sciences: Continuous Variables	3 Units

HSS 2382	Quantitative Methods in Health Sciences: Categorical Variables	3 Units
PHI 2396	Bioethics	3 Units

### Compulsory courses at the 3000 level

HSS 3101	Health Research: Quantitative and Qualitative Approaches	3 Units
HSS 3103	Experience of Illness, Impairment and Disability	3 Units
HSS 3106	Pharmacology: Mechanisms and Compliance	3 Units
HSS 3107	Understanding Health Technology Signals	3 Units
HSS 3110	Epidemiology	3 Units
HSS 3303	Environment and Health	3 Units
HSS 3305	Pathophysiology of Health Problems	3 Units
HSS 3332	Technology and Health	3 Units

### Compulsory courses at the 4000 level

HSS 4101	Development and Evaluation of Health Programs	3 Units
HSS 4102	Developmental Origins of Health and Disease	3 Units
HSS 4108	Methods of Health Technology Assessment	3 Units
HSS 4109	Computer Assisted Health Applications	3 Units

### Optional courses

3 optional course units in Health Sciences from the list of optional courses 3 Units

6 science optional course units offered by the Faculty of Science 6 Units

### Electives

30 elective course units or a minor 30 Units

Total: 120 Units

### Note(s)

A maximum of 42 course units at the 1000 level is permitted.

## List of Optional Courses

ANP 1107	Human Anatomy and Physiology III	3 Units
HSS 2104	Human Activity, Occupation and Health	3 Units
HSS 2105	Understanding Mental Health	3 Units
HSS 2121	History of Health Care	3 Units
HSS 2342	Nutritional Determinants of Health	3 Units
HSS 2516	La santé des francophones en situation minoritaire	3 Units
HSS 3105	Global Citizenship and Health	3 Units
HSS 3108	Disease Prevention and Health Promotion	3 Units
HSS 3109	Research Approaches in Health Biosciences	3 Units
HSS 4107	Interdisciplinary Perspectives on Death and Dying	3 Units
HSS 4110	Population and Public Health	3 Units
HSS 4111	Perspectives in Sexual and Reproductive Health	3 Units
HSS 4312	Critical Appraisal and Evaluation of Health Research	3 Units
HSS 4324	Selected Topics in Health Sciences	3 Units
HSS 4331	International Health	3 Units
HSS 4900	Research Project	3 Units

*This is a copy of the 2022-2023 catalog.*

HSS 4901	Advanced Research Project	6 Units
HSS 4902	Interdisciplinary Health Sciences Fieldwork	3 Units