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

The Honours Bachelor in 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 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 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 2381 Quantitative Methods in Health Sciences: Continuous Variables (3 Units)

List of Optional Courses

- HSS 2382 Quantitative Methods in Health Sciences: Categorical Variables (3 Units)
- PHI 2396 Bioethics (3 Units)
- 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 optional course units offered by the Faculty of Science (6 Units)
- 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.

- 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 4132 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)
- HSS 4901 Advanced Research Project (6 Units)
- HSS 4902 Interdisciplinary Health Sciences Fieldwork (3 Units)