HONOURS BACHELOR OF HEALTH SCIENCES- OPTION INTEGRATIVE HEALTH BIOSCIENCES

The Honours Bachelor in Health Sciences program is designed to provide students with a solid background in health sciences, 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 Integrative Health Biosciences option will provide students with advanced knowledge and research approaches to investigate the cellular and molecular processes that underlie the life-trajectory. Upon completion of this option students will be able to integrate molecular and (patho)physiological concepts and design research in the field health biosciences.

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 for 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 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 2312 Sociopolitical and Economic Perspectives in Health (3 Units)
- HSS 2381 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

- BIO 3152 Cell Biology Laboratory (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 3109 Research Approaches in Health Biosciences (3 Units)
- HSS 3110 Epidemiology (3 Units)
- HSS 3303 Environment and Health (3 Units)
- HSS 3305 Pathophysiology of Health Problems (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 4112 Molecular Determinants of Health and Longevity (3 Units)
- HSS 4313 Integrative Approaches in Health Biosciences (3 Units)

Optional courses

- 6 optional course units in Health Sciences from the list of optional courses (6 Units)
- 3 optional course units offered by the Faculty of Science (3 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.

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 2321 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 3107 Understanding Health Technology Signals (3 Units)
- HSS 3108 Disease Prevention and Health Promotion (3 Units)
- HSS 3321 Technology and Health (3 Units)
- HSS 4107 Interdisciplinary Perspectives on Death and Dying (3 Units)
- HSS 4108 Methods of Health Technology Assessment (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)
- HSS 4901 Advanced Research Project (6 Units)
- HSS 4902 Interdisciplinary Health Sciences Fieldwork (3 Units)