

## Healthcare Leadership and Innovation

The Health Leadership and Innovation focal area prepares students to advance healthcare practices, make evidence-informed decisions, and promote accessible, equitable, inclusive healthcare. It may be of interest if you are considering careers involving:

- Health Policy Analysis
- Public Health Education
- Patient Experience
- Clinical Healthcare
- Health Communications

Please note:

- **Inclusion on this list does not guarantee enrolment in courses that have Priority Access or other restrictions in place**
- This guidance document provides an optional framework for tailoring your electives to your career interests and professional goals
- You are responsible for selecting courses that meet degree requirements for the BIOS major
- Verify admission requirements for any further education programs you're considering

### A) Foundations

Common prerequisites for courses in this focal area, and/or relevant to all areas of application listed:

MCB\*2050 Molecular Biology of the Cell  
MICR\*2420 Introduction to Microbiology  
HK\*3810 Human Physiology II  
NUTR\*3210 Fundamentals of Nutrition

### B) Areas of Application

#### Epidemiology and Public Health

ONEH\*1000 Introduction to One Health  
FOOD\*2420 Intro to Food Microbiology  
PATH\*3040 Principles of Parasitology  
POPM\*3240 Epidemiology  
HK\*4510/11/12 Teaching, Learning, and Knowledge Transfer  
NUTR\*4510 Toxicology, Nutrition & Food  
POPM\*4040 Epidemiology of Food-borne Diseases

#### Exercise and Rehabilitation Science

HK\*2270 Human Biomechanics  
BIOL\*3650 Applications in Biology  
BIOM\*3010 Biomedical Comparative Anatomy  
HK\*4550 Human Cardio-respiratory Physiology  
HK\*4610 Health and Injury Biomechanics  
NUTR\*4210 Nutrition, Exercise & Metabolism  
HK\*4460 Regulation of Human Metabolism

## Human Health and Disease


CHEM\*2720 Organic Chemistry I  
BIOC\*3560 Structure & Function in Biochemistry  
BIOM\*3010 Biomedical Comparative Anatomy  
BIOM\*3090 Principles of Pharmacology  
MICR\*3230 Immunology  
PATH\*3610 Principles of Disease  
BIOM\*4050 Biomedical Aspects of Aging

## Nutrition and Lifestyle Medicine

NUTR\*2150 Intro Nutritional & Food Science  
HORT\*3310 Plants, Food & Health  
NUTR\*3360 Lifestyle Genomics  
NUTR\*3150 Aging and Nutrition  
NUTR\*4090 Functional Foods & Nutraceuticals  
NUTR\*4210 Nutrition, Exercise & Metabolism  
NUTR\*4360 Current Issues in Nutrigenomics

## C) Liberal Education and Transferable Skills


Additional skills and knowledge to help you address complex situations, collaborate and communicate effectively, navigate regulatory environments, and integrate social and cultural perspectives.

- The BSc program and BIOS major include a limit on the number of 1000 level and non-science credits that can count toward the degree. See the [Academic Calendar](#) listing for full details
- DNA symbol (  ) marks approved science electives. These courses may not be counted toward the Liberal Education degree requirement



## Business, Economics, and Public Policy

ECON\*1050 Introductory Microeconomics  
MGMT\*2150 Intro to Canadian Business  
POLS\*2230 Public Policy  
MGMT\*3300 Project Management

## Ethics, Equity, and Critical Thinking

PHIL\*2120 Ethics  
PHIL\*2030 Philosophy of Medicine  
UNIV\*2010 Anti-Discrimination & Anti-Oppression  
BIOM\*3210 Critical Thinking in the Health Sciences 

## Interpersonal Skills, Professional Relationships, and Communication

ENGL\*1030 Effective Writing  
BIOL\*3660 Internship in Biological Science   
HROB\*2010 Foundations of Leadership  
BIOL\*4020 Integrative Problems in Biological Science 

## Social Perspectives on Human Health and Development

FARE\*1300 Poverty, Food & Hunger  
FRHD\*1010 Human Development  
PSYC\*1000 Introduction to Psychology  
MCB\*2000 Microbes, Medicines & Society