## **Health Sciences**

This section presents the requirements for programs in:

- · Health Sciences with Concentration B.H.Sc. Honours
- · Concentration in Biomedical Sciences
- · Concentration in Disability and Chronic Illness
- · Concentration in Environment and Health
- · Concentration in Global Health
- Concentration in Health Throughout the Lifespan
- Health Sciences B.H.Sc.
- · Journalism with Concentration in Health Sciences B.J. Honours
- · Minor in Health Sciences

## **Program Requirements**

Students in the B.H.Sc. Honours program choose to follow one of five concentrations. The selection must take place at admission.

## **Health Sciences with Concentration** B.H.Sc. Honours (20.0 credits)

## A. Credits Included in the Major CGPA (10.0 credits)

1. 4.5 credits in:		4.5
HLTH 1000 [0.5]	Fundamentals of Health	
HLTH 1002 [0.5]	Health Science Communication	
HLTH 2001 [0.5]	Health Research Methods and Skills	
HLTH 2002 [0.5]	Molecular and Cellular Pathology	
HLTH 2003 [0.5]	Social Determinants of Health	
HLTH 3101 [0.5]	Global Health	
HLTH 3201 [0.5]	Epidemiology	
HLTH 3302 [0.5]	Immunity and Immune-Related Disorders	
HLTH 3404 [0.5]	Psychosocial and Biological Interactions in Health	
2. 1.5 credits in:		1.5
a) Project/Field Pla	acement pathway	
0.5 credit from:		
HLTH 3901 [0.5]	Emerging Issues in Health Sciences I	
HLTH 3902 [0.5]	Emerging Issues in Health Sciences II	
HLTH 3903 [0.5]	Emerging Issues in Health Sciences III	
HLTH 3904 [0.5]	Emerging Issues in Health Sciences IV	
HLTH 3905 [0.5]	Emerging Issues in Health Sciences V	
and		
1.0 credit from:		
HLTH 4907 [1.0]	Capstone Course – Group Research Project	
HLTH 4909 [1.0]	Capstone Course – Field Placement and Research Project	
HLTH 4910 [1.0]	Honours Individual Research Thesis	
OR		

	b) Essay pathway		
	0.5 credit in HLTH e	elective at the 3000 level or above	
	and		
	1.0 credit in:		
	HLTH 4906 [1.0]	Capstone course – Research Essay	
3.	0.5 credit in HLTH	at the 3000 level or above	0.5
	3.5 credits in conc above	entration electives at the 3000 level	3.5
	Credits Not Includ edits)	ed in the Major CGPA (10.0	
5.	2.5 credits in:		2.5
	BIOL 1103 [0.5] BIOL 1104 [0.5]	Foundations of Biology I Foundations of Biology II	
	CHEM 1001 [0.5]	General Chemistry I	
	CHEM 1002 [0.5]	General Chemistry II	
	MATH 1007 [0.5]	Elementary Calculus I	
6.	1.0 credit from:		1.0
	ECON 1001 [0.5]	Introduction to Microeconomics Introduction to Macroeconomics	
	or		
	PSYC 1001 [0.5] & PSYC 1002 [0.5]	Introduction to Psychology I Introduction to Psychology II	
7.	1.0 credit in:		1.0
	STAT 2507 [0.5]	Introduction to Statistical Modeling I	
	STAT 2509 [0.5]	Introduction to Statistical Modeling	
8.	1.0 credit in:		1.0
	BIOL 2104 [0.5]	Introductory Genetics	
	BIOL 2200 [0.5]	Cellular Biochemistry	
	1.0 credit in appro-	ved 2000-level concentration	1.0
10	. 0.5 credit from:		0.5
	PHIL 1550 [0.5]	Introduction to Ethics and Social Issues	
	PHIL 2408 [0.5]	Bioethics	
11	. 3.0 credits in free	e electives.	3.0
	OTE: The maximum d concentrations for	allowed combined number of minors any student is two.	
	tal Credits		20.0
	oncentration in edits)	Biomedical Sciences (5.0	
1.	0.5 credit from:		0.5
	CHEM 2203 [0.5]	Organic Chemistry I	
	FOOD 2001 [0.5]	Principles of Nutrition	
	NEUR 2201 [0.5]	Cellular and Molecular Neuroscience	
	PSYC 2301 [0.5]	Introduction to Health Psychology	
2.	2.5 credits in:	, 3,	2.5
	BIOL 3104 [0.5]	Molecular Genetics	
	BIOL 3305 [0.5]	Human and Comparative Physiology	
	or BIOL 3306 [0.	Human Anatomy and Physiology	
	BIOL 3307 [0.5]	Advanced Human Anatomy and Physiology	
	HLTH 2004 [0.5]	Microbiology and Virology	
	HLTH 3303 [0.5]	Molecular and Cellular Pathology II	
3.	0.5 credit from:	-	0.5

	HLTH 4201 [0.5]	Applied Health Statistics		HLTH 2004 [0.5]	Microbiology and Virology	
	HLTH 4202 [0.5]	Health Program Evaluation Tools		NEUR 2202 [0.5]	Neurodevelopment and Plasticity	
	112111 4202 [0.5]	and Methods		PSYC 2301 [0.5]	Introduction to Health Psychology	
4.	1.0 credit from:		1.0	3. 2.5 credits in:	introduction to riealth F sychology	2.5
	COMS 2500 [0.5]	Communication and Science		BIOL 3305 [0.5]	Human and Comparative	2.0
	HLTH 3401 [0.5]	Diseases of Childhood		DIOL 0000 [0.0]	Physiology	
	HLTH 3402 [0.5]	Diseases of Aging		or BIOL 3306 [0.	.5Human Anatomy and Physiology	
	HLTH 3503 [0.5]	Disability and Chronic Health Conditions		BIOL 3307 [0.5]	Advanced Human Anatomy and Physiology	
	HLTH 4102 [0.5] HLTH 4301 [0.5]	New Health Technologies Pandemics and Infectious Disease		HLTH 3503 [0.5]	Disability and Chronic Health Conditions	
	HLTH 4302 [0.5]	Inflammatory and Endocrine Factors in Diseases		HLTH 4502 [0.5]	Disabilities and Disorders Related to Sensory Nervous System	
	HLTH 4303 [0.5]	Fundamentals in Pharmacology and Toxicology		HLTH 4503 [0.5]	Trauma-related Disability and Impairments	
	HLTH 4401 [0.5]	Maternal and Perinatal		4. 0.5 credit from:		0.5
		Determinants of Health		HLTH 4201 [0.5]	Applied Health Statistics	
	HLTH 4502 [0.5]	Disabilities and Disorders Related to Sensory Nervous System		HLTH 4202 [0.5]	Health Program Evaluation Tools and Methods	
	HLTH 4503 [0.5]	Trauma-related Disability and		5. 1.0 credit from:		1.0
		Impairments		BIOL 3501 [0.5]	Biomechanics	
5.	0.5 credit from:		0.5	COMS 2500 [0.5]	Communication and Science	
	BIOL 3202 [0.5]	Principles of Developmental Biology		HLTH 3103 [0.5]	Health Policy and Canada's Health Care System	
	BIOL 3501 [0.5]	Biomechanics		HLTH 3104 [0.5]	Regulatory Issues and Human	
	BIOL 4202 [0.5]	Mutagenesis and DNA Repair			Health	
	COMS 3412 [0.5]	Communication and Health		HLTH 3401 [0.5]	Diseases of Childhood	
	ECON 4460 [0.5]	Health Economics		HLTH 3402 [0.5]	Diseases of Aging	
	FOOD 3005 [0.5]	Food Microbiology		HLTH 4302 [0.5]	Inflammatory and Endocrine	
	FOOD 4201 [0.5]	Advanced Nutrition and Metabolism		NELID 3501 [0.5]	Factors in Diseases	
	FOOD 4202 [0.5]	Micronutrients and Health		NEUR 3501 [0.5]	Neurodegeneration and Aging	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5]	Micronutrients and Health Health, Environment, and Society		6. 0.5 credit from:	Neurodegeneration and Aging	0.5
	FOOD 4202 [0.5]	Micronutrients and Health		6. <b>0.5 credit from:</b> BIOC 3008 [0.5]	Neurodegeneration and Aging Bioinformatics	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global		6. 0.5 credit from:	Neurodegeneration and Aging	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5]	Neurodegeneration and Aging  Bioinformatics  Molecular Genetics  Principles of Developmental	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]	Neurodegeneration and Aging  Bioinformatics  Molecular Genetics  Principles of Developmental Biology	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5] COMS 3412 [0.5]	Neurodegeneration and Aging  Bioinformatics  Molecular Genetics  Principles of Developmental Biology  Communication and Health	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5]	Neurodegeneration and Aging  Bioinformatics  Molecular Genetics  Principles of Developmental Biology  Communication and Health  Health Economics	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5]	Neurodegeneration and Aging  Bioinformatics  Molecular Genetics  Principles of Developmental Biology  Communication and Health Health Economics Food Microbiology	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4601 [0.5] HLTH 4701 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5]	Neurodegeneration and Aging  Bioinformatics  Molecular Genetics  Principles of Developmental Biology  Communication and Health  Health Economics  Food Microbiology  Food Safety Risk Assessment	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4401 [0.5] HLTH 4601 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5]	Neurodegeneration and Aging  Bioinformatics  Molecular Genetics  Principles of Developmental Biology  Communication and Health  Health Economics  Food Microbiology  Food Safety Risk Assessment  Advanced Nutrition and Metabolism	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5]  HLTH 3103 [0.5]  HLTH 3403 [0.5]  HLTH 4401 [0.5]  HLTH 4701 [0.5]  HLTH 4901 [0.5]  NEUR 3304 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5]	Neurodegeneration and Aging  Bioinformatics  Molecular Genetics  Principles of Developmental Biology  Communication and Health  Health Economics  Food Microbiology  Food Safety Risk Assessment  Advanced Nutrition and Metabolism  Micronutrients and Health  Health, Environment, and Society  Indigenous Health in a Global	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4401 [0.5] HLTH 4601 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3403 [0.5] HLTH 3403 [0.5] HLTH 4401 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5]  HLTH 3103 [0.5]  HLTH 3403 [0.5]  HLTH 4401 [0.5]  HLTH 4701 [0.5]  HLTH 4901 [0.5]  NEUR 3304 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health Neurodevelopmental Determinants		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II Gender and Health	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4401 [0.5] HLTH 4601 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5] NEUR 3502 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health	5.0	6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II Gender and Health Global Health Governance	0.5
	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4401 [0.5] HLTH 4701 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5] NEUR 3502 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health Neurodevelopmental Determinants of Mental Health	5.0	6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4301 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II Gender and Health Global Health Governance Pandemics and Infectious Disease	0.5
С	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4401 [0.5] HLTH 4701 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5] NEUR 3502 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health Neurodevelopmental Determinants		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4301 [0.5] HLTH 4303 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II Gender and Health Global Health Governance Pandemics and Infectious Disease Fundamentals in Pharmacology and Toxicology	0.5
C (5	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4401 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5] NEUR 3502 [0.5]  Otal Credits  oncentration in	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health Neurodevelopmental Determinants of Mental Health		6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4301 [0.5]	Neurodegeneration and Aging  Bioinformatics  Molecular Genetics  Principles of Developmental Biology  Communication and Health  Health Economics  Food Microbiology  Food Safety Risk Assessment  Advanced Nutrition and Metabolism  Micronutrients and Health  Health, Environment, and Society  Indigenous Health in a Global  World  Molecular and Cellular Pathology II  Gender and Health  Global Health Governance  Pandemics and Infectious Disease  Fundamentals in Pharmacology and Toxicology  Maternal and Perinatal	0.5
C (5	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4701 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5] NEUR 3502 [0.5]  DETAIL Credits  Oncentration in 6.5 credits)	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health Neurodevelopmental Determinants of Mental Health	ss	6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4301 [0.5] HLTH 4303 [0.5] HLTH 4303 [0.5] HLTH 4401 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II Gender and Health Global Health Governance Pandemics and Infectious Disease Fundamentals in Pharmacology and Toxicology	0.5
C (5	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4401 [0.5] HLTH 4701 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5]  NEUR 3502 [0.5]  Otal Credits  Oncentration in 5.5 credit in: NEUR 2201 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health Neurodevelopmental Determinants of Mental Health	0.5	6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4301 [0.5] HLTH 4303 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II Gender and Health Global Health Governance Pandemics and Infectious Disease Fundamentals in Pharmacology and Toxicology Maternal and Perinatal Determinants of Health	0.5
C (5	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5] NEUR 3502 [0.5]  Otal Credits  oncentration in 5.5 credit in: NEUR 2201 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health Neurodevelopmental Determinants of Mental Health  Disability and Chronic Illnes  Cellular and Molecular Neuroscience	ss	6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4301 [0.5] HLTH 4303 [0.5] HLTH 4401 [0.5] HLTH 4401 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II Gender and Health Global Health Governance Pandemics and Infectious Disease Fundamentals in Pharmacology and Toxicology Maternal and Perinatal Determinants of Health Environmental Pollution and Health	0.5
C (5	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4701 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5] Otal Credits Oncentration in 5.5 credit in: NEUR 2201 [0.5]  0.5 credit from: BIOL 2303 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health Neurodevelopmental Determinants of Mental Health  Disability and Chronic Illnes  Cellular and Molecular Neuroscience  Microbiology	0.5	6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5] HLTH 4301 [0.5] HLTH 4301 [0.5] HLTH 4401 [0.5] HLTH 4401 [0.5] HLTH 4401 [0.5] HLTH 4701 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II Gender and Health Global Health Governance Pandemics and Infectious Disease Fundamentals in Pharmacology and Toxicology Maternal and Perinatal Determinants of Health Environmental Pollution and Health Knowledge Translation	0.5
C (5	FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 3403 [0.5] HLTH 4101 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3401 [0.5] NEUR 3502 [0.5]  Otal Credits  oncentration in 5.5 credit in: NEUR 2201 [0.5]	Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Health Policy and Canada's Health Care System Regulatory Issues and Human Health Gender and Health Global Health Governance Environmental Pollution and Health Knowledge Translation Directed Studies in Health Hormones and Behaviour Environmental Toxins and Mental Health Neurodevelopmental Determinants of Mental Health  Disability and Chronic Illnes  Cellular and Molecular Neuroscience	0.5	6. 0.5 credit from: BIOC 3008 [0.5] BIOL 3104 [0.5] BIOL 3202 [0.5]  COMS 3412 [0.5] ECON 4460 [0.5] FOOD 3005 [0.5] FOOD 4103 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3403 [0.5] HLTH 4301 [0.5] HLTH 4301 [0.5] HLTH 4401 [0.5] HLTH 4401 [0.5] HLTH 4701 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5]	Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics Food Microbiology Food Safety Risk Assessment Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World Molecular and Cellular Pathology II Gender and Health Global Health Governance Pandemics and Infectious Disease Fundamentals in Pharmacology and Toxicology Maternal and Perinatal Determinants of Health Environmental Pollution and Health Knowledge Translation Directed Studies in Health	0.5

	NEUR 3502 [0.5]	Neurodevelopmental Determinants of Mental Health			HLTH 3503 [0.5]	Disability and Chronic Health Conditions	
To	otal Credits		5.5		HLTH 4101 [0.5]	Global Health Governance	
_	anaantratian in	Environment and Health (6.0			HLTH 4102 [0.5]	New Health Technologies	
		Environment and Health (6.0			HLTH 4301 [0.5]	Pandemics and Infectious Disease	
	redits) 1.0 credit in:		1.0		HLTH 4302 [0.5]	Inflammatory and Endocrine Factors in Diseases	
	BIOL 3305 [0.5]	Human and Comparative Physiology			HLTH 4401 [0.5]	Maternal and Perinatal Determinants of Health	
		EHuman Anatomy and Physiology			HLTH 4502 [0.5]	Disabilities and Disorders Related	
	CHEM 2800 [0.5]	Foundations for Environmental Chemistry			HLTH 4503 [0.5]	to Sensory Nervous System Trauma-related Disability and	
2.	0.5 credit from:		0.5			Impairments	
	BIOL 2303 [0.5]	Microbiology			HLTH 4701 [0.5]	Knowledge Translation	
	FOOD 2001 [0.5]	Principles of Nutrition			HLTH 4901 [0.5]	Directed Studies in Health	
	HLTH 2004 [0.5]	Microbiology and Virology		•	Total Credits		6.0
	NEUR 2201 [0.5]	Cellular and Molecular		(	Concentration in	Global Health (5.5 credits)	
	PSYC 2301 [0.5]	Neuroscience			1. 0.5 credit in:	· Cional Frontin (Cio Ground)	0.5
2	2.5 credits in:	Introduction to Health Psychology	2.5		BIOL 3305 [0.5]	Human and Comparative	0.0
٥.	CHEM 3800 [0.5]	The Chemistry of Environmental	2.5			Physiology	
		Pollutants				.tHuman Anatomy and Physiology	
	HLTH 3104 [0.5]	Regulatory Issues and Human		- 2	2. 0.5 credit from:		0.5
	HLTH 3303 [0.5]	Health  Molecular and Cellular Pathology II			BIOL 3307 [0.5]	Advanced Human Anatomy and Physiology	
	HLTH 4303 [0.5]	Fundamentals in Pharmacology			CHEM 2203 [0.5]	Organic Chemistry I	
	112111 4303 [0.3]	and Toxicology			FOOD 2001 [0.5]	Principles of Nutrition	
	HLTH 4601 [0.5]	Environmental Pollution and Health			NEUR 2201 [0.5]	Cellular and Molecular	
4.	0.5 credit from:		0.5			Neuroscience	
	HLTH 4201 [0.5]	Applied Health Statistics			PSYC 2301 [0.5]	Introduction to Health Psychology	
	HLTH 4202 [0.5]	Health Program Evaluation Tools		;	3. 2.5 credits in:		2.5
		and Methods			HLTH 2004 [0.5]	Microbiology and Virology	
5.	1.0 credit from:		1.0		HLTH 3102 [0.5]	Indigenous Health in a Global World	
	BIOL 3307 [0.5]	Advanced Human Anatomy and Physiology			HLTH 4101 [0.5]	Global Health Governance	
	BIOL 4202 [0.5]	Mutagenesis and DNA Repair			HLTH 4301 [0.5]	Pandemics and Infectious Disease	
	CHEM 4800 [0.5]	Atmospheric Chemistry			HLTH 4401 [0.5]	Maternal and Perinatal	
	COMS 2500 [0.5]	Communication and Science				Determinants of Health	
	ECON 3804 [0.5]	Environmental Economics		4	4. 0.5 credit from:		0.5
	GEOG 3206 [0.5]	Health, Environment, and Society			HLTH 4201 [0.5]	Applied Health Statistics	
	HLTH 3401 [0.5]	Diseases of Childhood			HLTH 4202 [0.5]	Health Program Evaluation Tools and Methods	
	HLTH 3402 [0.5]	Diseases of Aging		į	5. 1.0 credit from:		1.0
	NEUR 3401 [0.5]	Environmental Toxins and Mental Health			COMS 2500 [0.5]	Communication and Science	
6.	0.5 credit from:		0.5		GEOG 3206 [0.5]	Health, Environment, and Society	
	BIOC 3008 [0.5]	Bioinformatics			HLTH 3103 [0.5]	Health Policy and Canada's Health	
	BIOL 3104 [0.5]	Molecular Genetics				Care System	
	BIOL 3202 [0.5]	Principles of Developmental Biology			HLTH 3104 [0.5]	Regulatory Issues and Human Health	
	COMS 3412 [0.5]	Communication and Health			HLTH 3303 [0.5]	Molecular and Cellular Pathology II	
	ECON 4460 [0.5]	Health Economics			HLTH 3401 [0.5]	Diseases of Childhood	
	FOOD 3005 [0.5]	Food Microbiology			HLTH 3402 [0.5]	Diseases of Aging	
	FOOD 4103 [0.5]	Food Safety Risk Assessment			HLTH 3403 [0.5]	Gender and Health	
	HLTH 3102 [0.5]	Indigenous Health in a Global World			HLTH 3503 [0.5]	Disability and Chronic Health Conditions	
	HLTH 3103 [0.5]	Health Policy and Canada's Health			HLTH 4102 [0.5]	New Health Technologies	
		Care System			HLTH 4303 [0.5]	Fundamentals in Pharmacology and Toxicology	
	HLTH 3403 [0.5]	Gender and Health			HLTH 4601 [0.5]	Environmental Pollution and Health	

6. 0.5 credit from:		0.5	HLTH 4102 [0.5]	New Health Technologies	
BIOC 3008 [0.5]	Bioinformatics		HLTH 4302 [0.5]	Inflammatory and Endocrine	
BIOL 3104 [0.5]	Molecular Genetics			Factors in Diseases	
COMS 3412 [0.5]	Communication and Health		HLTH 4303 [0.5]	Fundamentals in Pharmacology and Toxicology	
ECON 4460 [0.5]	Health Economics		NEUR 3501 [0.5]	Neurodegeneration and Aging	
FOOD 3005 [0.5]	Food Microbiology		NEUR 3502 [0.5]	Neurodevelopmental Determinants	
FOOD 4103 [0.5]	Food Safety Risk Assessment		NEON 3302 [0.3]	of Mental Health	
FOOD 4201 [0.5]	Advanced Nutrition and Metabolism		6. 0.5 credit from:		0.5
FOOD 4202 [0.5]	Micronutrients and Health		BIOC 3008 [0.5]	Bioinformatics	
HLTH 4302 [0.5]	Inflammatory and Endocrine Factors in Diseases		BIOL 3104 [0.5]	Molecular Genetics	
HLTH 4502 [0.5]	Disabilities and Disorders Related to Sensory Nervous System		BIOL 3202 [0.5]	Principles of Developmental Biology	
HLTH 4503 [0.5]	Trauma-related Disability and		BIOL 3501 [0.5]	Biomechanics	
	Impairments		COMS 3412 [0.5]	Communication and Health	
HLTH 4701 [0.5]	Knowledge Translation		ECON 4460 [0.5]	Health Economics	
HLTH 4901 [0.5]	Directed Studies in Health		FOOD 3005 [0.5]	Food Microbiology	
NEUR 3304 [0.5]	Hormones and Behaviour		FOOD 4103 [0.5]	Food Safety Risk Assessment	
NEUR 3401 [0.5]	Environmental Toxins and Mental		FOOD 4201 [0.5]	Advanced Nutrition and Metabolism	
	Health		FOOD 4202 [0.5]	Micronutrients and Health	
NEUR 3501 [0.5]	Neurodegeneration and Aging		GEOG 3206 [0.5]	Health, Environment, and Society	
NEUR 3502 [0.5]	Neurodevelopmental Determinants of Mental Health		HLTH 3102 [0.5]	Indigenous Health in a Global World	
Total Credits	. Usalth Throughout the Life	5.5	HLTH 3104 [0.5]	Regulatory Issues and Human Health	
	n Health Throughout the Lifes	pan	HLTH 4101 [0.5]	Global Health Governance	
(5.5 credits)			HLTH 4301 [0.5]	Pandemics and Infectious Disease	
1. 0.5 credit in: NEUR 2201 [0.5]	Cellular and Molecular	0.5	HLTH 4502 [0.5]	Disabilities and Disorders Related to Sensory Nervous System	
2. 0.5 credit from:	Neuroscience	0.5	HLTH 4503 [0.5]	Trauma-related Disability and Impairments	
BIOL 2303 [0.5]	Microbiology		HLTH 4601 [0.5]	Environmental Pollution and Health	
CHEM 2203 [0.5]	Organic Chemistry I		HLTH 4701 [0.5]	Knowledge Translation	
FOOD 2001 [0.5]	Principles of Nutrition		HLTH 4901 [0.5]	Directed Studies in Health	
HLTH 2004 [0.5]	Microbiology and Virology		NEUR 3304 [0.5]	Hormones and Behaviour	
NEUR 2202 [0.5]	Neurodevelopment and Plasticity		NEUR 3401 [0.5]	Environmental Toxins and Mental Health	
PSYC 2301 [0.5]	Introduction to Health Psychology		Total Cuadita	Health	
3. 2.5 credits in:		2.5	Total Credits		5.5
BIOL 3305 [0.5]	Human and Comparative Physiology		Health Sciences B.H.Sc. (15.0 cre		
-	.5Human Anatomy and Physiology		A. Credits Included i	in the Major CGPA (7.0 credits)	
BIOL 3307 [0.5]	Advanced Human Anatomy and Physiology		1. 2.5 credits in:	, ( ,	2.5
HLTH 3401 [0.5]	Diseases of Childhood		HLTH 1000 [0.5]	Fundamentals of Health	
HLTH 3402 [0.5]	Diseases of Aging		HLTH 1002 [0.5]	Health Science Communication	
HLTH 4401 [0.5]	Maternal and Perinatal Determinants of Health		HLTH 2001 [0.5]	Health Research Methods and Skills	
4. 0.5 credit from:		0.5	HLTH 2002 [0.5]	Molecular and Cellular Pathology	
HLTH 4201 [0.5]	Applied Health Statistics		HLTH 2003 [0.5]	Social Determinants of Health	
HLTH 4202 [0.5]	Health Program Evaluation Tools and Methods		2. 1.0 credit in: STAT 2507 [0.5]	Introduction to Statistical Modeling I	1.0
5. 1.0 credit from:		1.0	STAT 2509 [0.5]	Introduction to Statistical Modeling	
COMS 2500 [0.5]	Communication and Science		[0.0]	II	
HLTH 3103 [0.5]	Health Policy and Canada's Health		3. 0.5 credit from:		0.5
HLTH 3303 [0.5]	Care System  Molecular and Cellular Pathology II		BIOL 3305 [0.5]	Human and Comparative Physiology	
HLTH 3403 [0.5]	Gender and Health		BIOL 3306 [0.5]	Human Anatomy and Physiology	
HLTH 3503 [0.5]	Disability and Chronic Health		4. 0.5 credit from:	. , , , ,	0.5
	Conditions		BIOL 2303 [0.5]	Microbiology	

	CHEM 2203 [0.5]	Organic Chemistry I		JOUR 3235 [0.5]	Digital Journalism	
	FOOD 2001 [0.5]	Principles of Nutrition		JOUR 3300 [0.5]	Media Ethics in a Digital World	
	NEUR 2201 [0.5]	Cellular and Molecular		4. 0.5 credit in:	Wedia Ethios III a Digital World	0.5
	NEON 2201 [0.0]	Neuroscience		JOUR 4001 [0.5]	Journalism Now - and Next	0.0
	PSYC 2301 [0.5]	Introduction to Health Psychology			ournalism Publications:	0.5
5.	2.5 credits from:	, ,,	2.5	JOUR 4003 [0.5]	The Digital Hub: Advanced	0.0
	HLTH 2004 [0.5]	Microbiology and Virology		0001( 4000 [0.0]	Multimedia	
	HLTH 3101 [0.5]	Global Health		JOUR 4004 [0.5]	The Digital Hub: Advanced Audio	
	HLTH 3102 [0.5]	Indigenous Health in a Global		JOUR 4005 [0.5]	The Digital Hub: Advanced Video	
		World			pecialized Journalism:	0.5
	HLTH 3103 [0.5]	Health Policy and Canada's Health Care System		JOUR 4303 [0.5]	Specialized Journalism: Health and Science	
	HLTH 3104 [0.5]	Regulatory Issues and Human Health		JOUR 4304 [0.5]	Specialized Journalism: Environment and Science	
	HLTH 3201 [0.5]	Epidemiology		7. 1.0 credit from - Pr	rofessional Skills and/or	1.0
	HLTH 3302 [0.5]	Immunity and Immune-Related		Investigating Journa	ılism:	
		Disorders		Professional Skills		
	HLTH 3401 [0.5]	Diseases of Childhood		JOUR 4400 [0.5]	Professional Skills: Special Topic	
	HLTH 3402 [0.5]	Diseases of Aging		JOUR 4401 [0.5]	Professional Skills: Data	
	HLTH 3404 [0.5]	Psychosocial and Biological Interactions in Health		10110 1100 10 51	Storytelling	
	HLTH 3503 [0.5]	Disability and Chronic Health		JOUR 4402 [0.5]	Professional Skills: Longform Writing	
D	Cradita Not Includ	Conditions ed in the Major CGPA (8.0 credits)		JOUR 4403 [0.5]	Professional Skills: Strategic Communication	
	2.5 credits in:	ed in the Major CGFA (6.0 credits)	2.5	JOUR 4404 [0.5]	Professional Skills: Freelancing for	
٥.	BIOL 1103 [0.5]	Foundations of Biology I	2.0	00011 4404 [0.0]	Media Professionals	
	BIOL 1104 [0.5]	Foundations of Biology II		Investigating Journa		
	CHEM 1001 [0.5]	General Chemistry I		JOUR 4500 [0.5]	Investigating Journalism: Special	
	CHEM 1002 [0.5]	General Chemistry II			Topic	
	MATH 1007 [0.5]	Elementary Calculus I		JOUR 4501 [0.5]	Investigating Journalism: Gender,	
7.	1.0 credit from:	,	1.0		Identity and Inequality	
	ECON 1001 [0.5]	Introduction to Microeconomics		JOUR 4502 [0.5]	Investigating Journalism: Journalism and Conflict	
	ECON 1002 [0.5]	Introduction to Macroeconomics		JOUR 4503 [0.5]	Investigating Journalism:	
	PSYC 1001 [0.5]	Introduction to Psychology I		0001(4000 [0.0]	Journalism, Indigenous Peoples	
	PSYC 1002 [0.5]	Introduction to Psychology II			and Canada	
В.	0.5 credit from:		0.5	JOUR 4504 [0.5]	Investigating Journalism:	
	PHIL 1550 [0.5]	Introduction to Ethics and Social Issues			The Media and International Development	
	PHIL 2408 [0.5]	Bioethics		JOUR 4505 [1.0]	Investigating Journalism: The	
9.	4.0 credits in free	electives	4.0	D. Our dite. Not be about	Power and Politics of Government	
	otal Credits		15.0	credits)	led in the Major CGPA (12.0	
		Concentration in Health		8. 1.0 credit in:	Foundations of Distance	1.0
	ciences	0		BIOL 1103 [0.5]	Foundations of Biology I	
3	J. Honours (20	.u credits)		BIOL 1104 [0.5]	Foundations of Biology II	2.0
		n the Major CGPA (8.0 credits)		9. 2.0 credits in Heal		2.0
1.	1.0 credit in:		1.0	HLTH 1001 [0.5] HLTH 2001 [0.5]	Principles of Health I Health Research Methods and	
	JOUR 1001 [0.5]	Foundations: Journalism in Context		HL1H 2001 [0.5]	Skills	
	JOUR 1002 [0.5]	Foundations: Practicing Journalism		HLTH 2002 [0.5]	Molecular and Cellular Pathology	
_	0.0	in a Diverse Society	2.0	HLTH 2003 [0.5]	Social Determinants of Health	
۷.	2.0 credits in:	Fundamentals of Deposition	2.0	10. 1.0 credit in a cap		1.0
	JOUR 2201 [1.0]	Fundamentals of Reporting		NSCI 4901 [1.0]	Science Journalism Independent	
	JOUR 2202 [0.5]	Digital Journalism Toolkit		[]	Project	
3.	JOUR 2501 [0.5] 2.5 credits in:	Media Law	2.5		ives in Health Sciences, including y, Neuroscience and Psychology	2.0
	JOUR 3207 [0.5]	Audio Journalism		12 a. 0.5 credit from:		0.5
	JOUR 3208 [0.5]	Video Journalism		HIST 1301 [0.5]	Conflict and Change in Early	0.0
	JOUR 3225 [0.5]	Reporting in Depth			Canadian History	

	HIST 1302 [0.5]	Rethinking Modern Canadian History	
	HIST 2301 [0.5]	Canadian Political History	
	HIST 2304 [1.0]	Social and Cultural History of Canada (See Item 13 below)	
	HIST 2311 [0.5]	Environmental History of Canada (b. 0.5 credit from:)	
k	. 0.5 credit from:		0.5
	INDG 1010 [0.5]	Indigenous Ways of Knowing	
	INDG 1011 [0.5]	Introduction to Indigenous-Settler Encounters	
	INDG 2011 [0.5]	Critical Indigenous Studies	
1	3. 5.0 credits in free	e electives. Students who take	5.0

13. 5.0 credits in free electives. Students who take
HIST 2304 to fulfill Item 12a will have 4.5 credits in free
electives. Free elective credits may include JOUR courses
in the 4300 series of courses, 4400 series of courses and
4500 series of courses, JOUR 4003, JOUR 4004 and
JOUR 4005.

Total Credits 20.0

## Minor in Health Sciences (4.0 credits)

This minor is open to all undergraduate degree students not in the Health Sciences program. Only students pursuing undergraduate programs requiring at least 20.0 credits to graduate and who have completed at least 4.0 credits towards their degree with a minimum Overall CGPA of 8.00 may be admitted to the Minor in Health Sciences.

Students are required to present a Minor CGPA of 6.50 or higher at graduation in order to be awarded a Minor in Health Sciences.

## Requirements:

1. 2.5 credits in:		2.5
HLTH 1001 [0.5]	Principles of Health I	
HLTH 2001 [0.5]	Health Research Methods and Skills	
HLTH 2002 [0.5]	Molecular and Cellular Pathology	
HLTH 2003 [0.5]	Social Determinants of Health	
HLTH 2020 [0.5]	Principles of Health II	
2. 1.5 credits in HLT	H at the 3000-level or higher	1.5
3. The remaining requ	irements of the major discipline(s)	

and degree must be satisfied.

Total Credits 4.0

#### Regulations

In addition to the program requirements described here, students must satisfy the University regulations (see the Academic Regulations of the University section of this Calendar).

Students should consult with the department when planning their program and selecting courses.

## **Admissions Information**

Admission Requirements are for the 2023-24 year only, and are based on the Ontario High School System. Holding the minimum admission requirements only establishes eligibility for consideration. The cut-off averages for admission may be considerably higher than the minimum. See also the **General Admission and Procedures** section of this Calendar. An overall average

of at least 70% is normally required to be considered for admission. Some programs may also require specific course prerequisites and prerequisite averages and/or supplementary admission portfolios. Higher averages are required for admission to programs for which the demand for places by qualified applicants exceeds the number of places available. The overall average required for admission is determined each year on a program by program basis. Consult admissions.carleton.ca for further details.

Note: Courses listed as *recommended* are not mandatory for admission. Students who do not follow the recommendations will not be disadvantaged in the admission process.

#### **Admissions Information**

Admission requirements are based on the Ontario High School System. Prospective students can view the admission requirements through the Admissions website at admissions.carleton.ca. The overall average required for admission is determined each year on a program-by-program basis. Holding the minimum admission requirements only establishes eligibility for consideration; higher averages are required for admission to programs for which the demand for places by qualified applicants exceeds the number of places available. All programs have limited enrolment and admission is not guaranteed. Some programs may also require specific course prerequisites and prerequisite averages and/or supplementary admission portfolios. Consult admissions.carleton.ca for further details.

**Note:** If a course is listed as *recommended*, it is not mandatory for admission. Students who do not follow the recommendations will not be disadvantaged in the admission process.

## **Degrees**

- Bachelor of Health Sciences (B.H.Sc.) (Honours)
- Bachelor of Health Sciences (B.H.Sc.)

#### Admission Requirements

## First Year

## B.H.Sc. (Honours)

The Ontario Secondary School Diploma (OSSD) or equivalent including a minimum of six 4U or M courses. The six 4U or M courses must include Advanced Functions and two of Biology, Chemistry, Earth and Space Sciences, or Physics. Calculus and Vectors is strongly recommended. A 4U course in English is recommended.

#### B.H.Sc

No direct entry; access is restricted.

#### **Advanced Standing**

#### B.H.Sc. (Honours)

The program maintains a number of places for students who wish to transfer from Carleton or elsewhere. Normally, offers are made to students with an overall CGPA of 9.00 (B+) or higher.

B.H.Sc.

No direct entry. Access is restricted to students in the B.H.Sc. (Honours) program who apply to transfer.

## **Health Sciences (HLTH) Courses**

## **HLTH 1000 [0.5 credit]**

## **Fundamentals of Health**

Introduction to what comprises a healthy body and mind, and what leads to illness and disease. Biomedical, psychosocial, and epidemiological approaches to current issues in the field of health. Policy and cultural/environmental contexts.

Includes: Experiential Learning Activity
Precludes additional credit for HLTH 1001.

Lectures three hours a week and group one hour a week.

## HLTH 1001 [0.5 credit] Principles of Health I

Health and illness will be considered from an interdisciplinary perspective, including biomedical, cultural, psychosocial and environmental.

Precludes additional credit for HLTH 1000.

Lecture three hours a week.

## **HLTH 1002 [0.5 credit]**

#### **Health Science Communication**

Introduction to using library, database and/or bioinformatics resources to develop informed verbal, nonverbal and written communication within the context of healthcare, public health and health research. Concepts in ethical scholarship, proper use of sources and plagiarism will be introduced.

Lecture three hours a week.

## HLTH 2001 [0.5 credit]

#### **Health Research Methods and Skills**

An introduction to quantitative and qualitative methods and designs in health sciences research. Basic research skills will also be provided, including regulatory aspects of conducting research, information literacy skills, evaluating published research and other sources of evidence in the digital age.

Includes: Experiential Learning Activity
Prerequisite(s): HLTH 1000 or HLTH 1001.

Lecture three hours a week, lab/workshop two hours a week.

#### HLTH 2002 [0.5 credit]

## Molecular and Cellular Pathology

Introduction to the causes, natural history, and pathophysiology of common human diseases of various organ systems. Diseases related to structural and functional changes at the molecular, cellular and organ level.

Includes: Experiential Learning Activity

Prerequisite(s): HLTH 1000 and BIOL 1103 or HLTH 2020.

Lecture three hours a week.

## HLTH 2003 [0.5 credit]

#### **Social Determinants of Health**

Overview of the social determinants of health, ranging from early life experiences, poverty, social status, migration, and the physical environment. The relation between social determinants and environmental vulnerabilities, health behaviours, illness prevalence, treatment outcomes, and access to health care. Prerequisite(s): HLTH 1000 or HLTH 1001. Lecture three hours a week.

# HLTH 2004 [0.5 credit] Microbiology and Virology

Introduction to the pathogenic microorganisms, including fungal, bacterial, viral and prion. Biochemical, genetic, pathological and epidemiological aspects in the human context; their interaction with host defense systems and strategies for antibiotic and vaccine development.

Includes: Experiential Learning Activity

Precludes additional credit for HLTH 3301 (no longer offered).

Prerequisite(s): HLTH 1000 and BIOL 1103 or permission of the department.

Lecture three hours a week, and laboratory three hours a week.

## HLTH 2020 [0.5 credit] Principles of Health II

An overview of the history of medicine, its relationship to society, medical and health terminology, introduction to organ systems, diseases, illnesses and their diagnoses, current events in health and medicine.

Prerequisite(s): HLTH 1001 or permission of the department.

Lecture three hours a week.

#### HLTH 3101 [0.5 credit] Global Health

Overview of issues in global health with focus on low- and middle-income countries. Key indicators and determinants of global health, implementation and evaluation of global programs, challenges of research and interventions in under served areas, and key players in addressing global health issues.

Prerequisite(s): HLTH 2001 and HLTH 2003, or permission of the department.

Lecture and seminar, three hours per week.

## HLTH 3102 [0.5 credit]

## Indigenous Health in a Global World

The health conditions of Indigenous peoples in different regions of the world; social and biological factors that contribute to greater risk and poor health; strategies of Indigenous peoples to restore health to their peoples. Prerequisite(s): HLTH 2001 and HLTH 2003, or permission of the department.

Lecture and seminar three hours per week.

#### HLTH 3103 [0.5 credit]

#### Health Policy and Canada's Health Care System

The history of Canada's health care system. The model of financing and intergovernmental responsibilities. Current and emerging policy debates facing our health care system, and the role of scientific evidence in decision-making and policy development.

Prerequisite(s): HLTH 1000 or HLTH 1001, or permission of the department.

Lecture and seminar three hours per week.

## HLTH 3104 [0.5 credit]

## Regulatory Issues and Human Health

The general principles of health regulatory policies in Canada. The role of scientific evidence in developing legislation and regulations at different levels, including probable levels of risk, standards of evidence, costbenefit analysis, ethical considerations, psychosocial factors influencing risk management and compliance, and evolving technologies.

Prerequisite(s): HLTH 1000 or HLTH 1001, or permission of the department.

Lecture and seminar three hours a week.

## HLTH 3201 [0.5 credit]

#### **Epidemiology**

Basic concepts of epidemiologic study designs and measures; inferences that are fundamental to the identification of causes and prevalence of diseases. Specialized issues within epidemiology including gene-environment interactions and the clustering of specific disease phenotypes.

Includes: Experiential Learning Activity Precludes additional credit for NEUR 3003.

Prerequisite(s): STAT 2507 and HLTH 2001, or permission of the department.

Lecture three hours a week, lab/workshop two hours a week.

## **HLTH 3302 [0.5 credit]**

#### **Immunity and Immune-Related Disorders**

Basic processes relevant to the immune system; the relationship between immune activity and functioning as related to the development of particular pathologies, such as virally-related illness, autoimmune disorders, inflammatory illnesses, and interactions with social and economic factors that promote immune-related disturbances.

Includes: Experiential Learning Activity

Prerequisite(s): HLTH 2002 and BIOL 2200 or permission of the department.

Lecture three hours a week, laboratory four hours a week. Labs require regular participation outside of the scheduled lab time.

#### HLTH 3303 [0.5 credit]

#### Molecular and Cellular Pathology II

Advanced concepts in cell signaling and function, cell injury and death, tissue structure and wound healing and repair. This course will integrate genetic, biochemical and physiological mechanisms that contribute to health and disease.

Includes: Experiential Learning Activity

Prerequisite(s): HLTH 2002.

Lecture three hours a week, lab four hours a week.

## HLTH 3401 [0.5 credit] Diseases of Childhood

Epidemiological, psychological and physiological basis for disease in childhood and adolescence. Topics will be discussed from a global and Canadian perspective and include the medicalization of these diseases.

Includes: Experiential Learning Activity

Prerequisite(s): HLTH 2002 and HLTH 2003 or permission of the department.

Lecture three hours a week.

## HLTH 3402 [0.5 credit] Diseases of Aging

Aging is accompanied by increased illness related to cardiovascular, immune and neurodegenerative processes. This course assesses the fundamental mechanisms that determine these pathological conditions. Molecular mechanisms and psychosocial determinants; intervention and therapeutic strategies.

Prerequisite(s): HLTH 2002 and HLTH 2003 or permission of department.

Lecture three hours a week.

### HLTH 3403 [0.5 credit] Gender and Health

The role of gender on psychosocial and biological mechanisms that alter the course of disease and treatment; health issues unique to women (e.g., reproductive and maternal health); the role of gender across cultures.

Prerequisite(s): HLTH 2002 and HLTH 2003, or permission of the department.

Lecture and seminar three hours a week.

#### HLTH 3404 [0.5 credit]

## Psychosocial and Biological Interactions in Health

The psychosocial and biological mechanisms that interact to influence health outcomes. Cultural, political, socioeconomic, and psychological factors that can impact the biological mechanisms underlying both mental and physical health; epigenetic and genetic alterations; implications for psychosocial interventions.

Precludes additional credit for HLTH 4402 (no longer offered).

Prerequisite(s): HLTH 2002 and HLTH 2003 or permission of the department.

Lecture and seminar three hours a week.

#### HLTH 3503 [0.5 credit]

#### **Disability and Chronic Health Conditions**

An interdisciplinary view of disability and chronic health conditions, including risk factors, prevalence, and the trajectory of such conditions. Functional impact based on life stage. Strategies for health promotion, prevention, accommodations, treatment, and rehabilitation. Prerequisite(s): HLTH 2002 and HLTH 2003 or permission of the department.

Lecture three hours a week.

#### HLTH 3901 [0.5 credit]

#### **Emerging Issues in Health Sciences I**

These courses enable students to develop an understanding of the current state of research and practice in Health Sciences. They provide the opportunity to bring together knowledge from other courses, and for skills development including teamwork, communication and critical thinking.

Includes: Experiential Learning Activity
Prerequisite(s): third-year standing and above in the BHSc program, an overall CGPA of at least 8.5 and permission of the Department of Health Sciences.
Seminars three hours a week.

#### **HLTH 3902 [0.5 credit]**

### **Emerging Issues in Health Sciences II**

These courses enable students to develop an understanding of the current state of research and practice in Health Sciences. They provide the opportunity to bring together knowledge from other courses and for skills development, including teamwork, communication and critical thinking.

Includes: Experiential Learning Activity
Prerequisite(s): third-year standing and above in the BHSc program, an overall CGPA of at least 8.5 and permission of the Department of Health Sciences.
Seminars three hours a week.

## **HLTH 3903 [0.5 credit]**

#### **Emerging Issues in Health Sciences III**

These courses enable students to develop an understanding of the current state of research and practice in Health Sciences. They provide the opportunity to bring together knowledge from other courses and for skills development, including teamwork, communication and critical thinking.

Includes: Experiential Learning Activity
Prerequisite(s): third-year standing and above in the BHSc program, an overall CGPA of at least 8.5 and permission of the Department of Health Sciences.
Seminars three hours a week.

#### HLTH 3904 [0.5 credit]

#### **Emerging Issues in Health Sciences IV**

These courses enable students to develop an understanding of the current state of research and practice in Health Sciences. They provide the opportunity to bring together knowledge from other courses and for skills development, including teamwork, communication and critical thinking.

Includes: Experiential Learning Activity
Prerequisite(s): third-year standing and above in the BHSc program, an overall CGPA of at least 8.5 and permission of the Department of Health Sciences.
Seminars three hours a week.

## **HLTH 3905 [0.5 credit]**

#### **Emerging Issues in Health Sciences V**

These courses enable students to develop an understanding of the current state of research and practice in Health Sciences. They provide the opportunity to bring together knowledge from other courses and for skills development, including teamwork, communication and critical thinking.

Includes: Experiential Learning Activity
Prerequisite(s): third-year standing and above in the BHSc program, an overall CGPA of at least 8.5 and permission of the Department of Health Sciences.
Seminars three hours a week.

## HLTH 4101 [0.5 credit] Global Health Governance

Contemporary issues and debates in global health governance and effects on health monitoring and outcomes at individual and population levels. Historical patterns of global health, its regulatory framework, principal coordinating mechanisms and emerging challenges, and implications of globalization and international trade policies.

Prerequisite(s): HLTH 3101, or permission of the department.

Lecture and seminar three hours per week.

## HLTH 4102 [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. Prerequisite(s): HLTH 1000 or HLTH 1001 and third-year standing or higher, or permission of the department. Also offered at the graduate level, with different requirements, as HLTH 5350, for which additional credit is precluded.

Lecture and seminar three hours a week.

## **HLTH 4201 [0.5 credit]**

## **Applied Health Statistics**

Statistics concepts and procedures used in the analysis of health data; techniques commonly used to analyze data collected from different types of epidemiological and experimental study designs; how to interpret and present statistical findings.

Includes: Experiential Learning Activity

Prerequisite(s): HLTH 3201 and STAT 2507 or permission of the department.

Lecture three hours a week, lab/workshop two hours a week

#### HLTH 4202 [0.5 credit]

## **Health Program Evaluation Tools and Methods**

Introduction to concepts, principles and processes of evaluating health care programs and interventions. Methodological tools including needs assessment, project management skills, use of health information management databases. Issues in communication with stakeholders, including change management and decision making. Prerequisite(s): HLTH 2001 and STAT 2507 or permission of the department.

Lecture and seminar three hours a week.

#### HLTH 4301 [0.5 credit]

#### **Pandemics and Infectious Disease**

Factors that influence disease processes, including viruses, bacteria, protozoa, fungi and infectious agents, how these agents come to have the effects that they do in a given individual, how they spread within and how to limit their spread.

Prerequisite(s): HLTH 2004 and HLTH 3302 or permission of the department.

Lecture three hours a week.

#### HLTH 4302 [0.5 credit]

## Inflammatory and Endocrine Factors in Diseases

Inflammatory and hormonal processes and their relevance to disease states. Immune-related disorders, heart disease and stroke, metabolic syndrome, diabetes, psychiatric conditions, and neurodegenerative disorders. The contribution of psychosocial and genetic factors to diseases.

Prerequisite(s): HLTH 3302 or BIOL 4200 or BIOC 4200 or permission of the department.

Lecture three hours a week.

#### HLTH 4303 [0.5 credit]

## Fundamentals in Pharmacology and Toxicology

Introduction to pharmacological principles, xenobiotics and their interactions within living systems. Topics include biological mechanisms of action of xenobiotics on macromolecules, cells and their effects on various organ systems. Social, legal and governmental policies will be discussed.

Prerequisite(s): HLTH 3303 or permission of the department.

Lecture and seminar three hours a week.

## HLTH 4304 [0.5 credit]

## **Host-Pathogen Interactions**

Advanced cellular and molecular mechanisms governing host-pathogen interactions and their contribution to disease. Exploration of immune signaling and recognition, virulence factors, antimicrobial resistance and research techniques used in this field.

Prerequisite(s): HLTH 2004 and HLTH 3302 or permission of the department.

Also offered at the graduate level, with different requirements, as HLTH 5403, for which additional credit is precluded.

Seminar three hours per week.

#### **HLTH 4401 [0.5 credit]**

#### **Maternal and Perinatal Determinants of Health**

The integrated genetic, physiologic and environmental events occurring in early life that impact pregnancy, fetal/infant development and disease risk throughout the lifecourse, with a focus on the mechanisms driving these events.

Prerequisite(s): HLTH 2003 and HLTH 3302 or permission of the department.

Lecture three hours a week.

#### **HLTH 4502 [0.5 credit]**

# Disabilities and Disorders Related to Sensory Nervous System

Congenital and acquired disabilities related to sensory organs and processes, including visual and hearing impairments, vestibular and balance disorders, reflex problems, and others. Interdisciplinary approach to causes, mechanisms, accessibility, accommodations and interventions.

Includes: Experiential Learning Activity
Precludes additional credit for HLTH 3501 (no longer offered).

Prerequisite(s): Either 1) HLTH 3503 and (BIOL 2005 or BIOL 3305 or BIOL 3306), or 2) NEUR 3206, or 3) permission of the department.

Lecture three hours a week, workshop two hours a week.

## HLTH 4503 [0.5 credit]

### **Trauma-related Disability and Impairments**

Biomedical and psychosocial factors associated with trauma-related illnesses, stressors, injuries and disabilities, including traumatic brain injury, spinal cord injury, fractures, amputations, burns, post-traumatic stress disorder, and others. Short- and long-term considerations for care and rehabilitation.

Precludes additional credit for HLTH 3502 (no longer offered).

Prerequisite(s): HLTH 3503 and (BIOL 2005 or BIOL 3305 or BIOL 3306) or permission of the department. Lecture three hours a week.

#### HLTH 4601 [0.5 credit]

#### **Environmental Pollution and Health**

Introduction to environmental and occupational health; detection, assessment, management and mitigation of chemical, physical and biological hazards.

Prerequisite(s): HLTH 3104 or permission of the department.

Lecture and seminar three hours a week.

## HLTH 4701 [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.

Prerequisite(s): fourth-year standing and permission of the Department of Health Science and permission of the instructor.

Also offered at the graduate level, with different requirements, as HLTH 5300, for which additional credit is precluded.

Seminar three hours a week.

## HLTH 4901 [0.5 credit] Directed Studies in Health

Independent study, open to third- and fourth-year students to explore a particular health related topic, in consultation with a Faculty supervisor. May include directed reading, written assignments, tutorials, laboratory or field work. Includes: Experiential Learning Activity

Prerequisite(s): third- or fourth-year standing in the B.H.Sc. program, in addition to permission of the Faculty supervisor and the Department of Health Sciences.

## **HLTH 4906 [1.0 credit]**

#### Capstone course - Research Essay

Independent critical review and research proposal on a health- related topic, using library, database and/or bioinformatics resources, under the supervision of the course instructor. Seminar topics include identification and critical review of resources, development of scientific writing skills, and formulation of health science-related research.

Includes: Experiential Learning Activity

Precludes additional credit for HLTH 4907, HLTH 4908 (no

longer offered), HLTH 4909, HLTH 4910.

Prerequisite(s): fourth-year standing in the B.H.Sc. Honours and permission of the Department of Health Sciences.

Lecture/seminar three hours a week.

#### HLTH 4907 [1.0 credit]

## Capstone Course - Group Research Project

A collaborative project on a health related topic. Students, working together as a team, will complete a research project and develop communication and research skills under the supervision of the faculty supervisor. Evaluation will be based on a written report and oral presentation.

Includes: Experiential Learning Activity

Precludes additional credit for HLTH 4906, HLTH 4908 (no longer offered), HLTH 4909, HLTH 4910.

Prerequisite(s): fourth-year standing in the B.H.Sc. Honours program, one of HLTH 3901, HLTH 3902, HLTH 3903, HLTH 3904 or HLTH 3905, a major CGPA of at least 9.0, and permission of the Faculty supervisor and the Department of Health Sciences.

Seminars three hours a week as scheduled by the course instructor; other hours as arranged with the Faculty Adviser.

#### HLTH 4909 [1.0 credit]

# Capstone Course – Field Placement and Research Project

Field placement providing practical experience in a health-related field. Placements may be in institutional or community settings, governmental or non-governmental organizations. Sites may vary each year. Evaluation based on a written report and an oral presentation.

Includes: Experiential Learning Activity
Precludes additional credit for HLTH 4906, HLTH 4907,
HLTH 4908 (no longer offered), HLTH 4910.
Prerequisite(s): fourth-year standing in B.H.Sc. Honours;
and one of HLTH 3901, HLTH 3902, HLTH 3903,
HLTH 3904 or HLTH 3905; and a minimum Overall and
Major CGPA of 9.0; and permission of the Department of
Health Sciences.

Schedules may vary depending on the field placement site, but students are required to spend a minimum of eight hours per week on-site and attend required seminars as arranged by the course instructor.

### HLTH 4910 [1.0 credit]

## **Honours Individual Research Thesis**

An independent health related research project under the direct supervision of a faculty member. Evaluation will be based on a written thesis and oral poster presentation (oral or poster).

Includes: Experiential Learning Activity
Precludes additional credit for HLTH 4906, HLTH 4907,
HLTH 4908, HLTH 4909.

Prerequisite(s): fourth-year standing in B.Sc. Honours Health Sciences, one of HLTH 3901, HLTH 3902, HLTH 3903, HLTH 3904 or HLTH 3905, a major CGPA of at least 10.0, and permission of the Faculty advisor and the Department of Health Sciences. Permission will depend, in part, on capacity, such that meeting the minimum requirements does not guarantee enrollment in this research thesis course.