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

OR

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

4.5

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:

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	

b) Essay pathway		
	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 concert or above 	entration electives at the 3000 level	3.5
B. Credits Not Include credits)	ed in the Major CGPA (10.0	
5. 2.5 credits in:		2.5
BIOL 1103 [0.5]	Foundations of Biology I	
BIOL 1104 [0.5]	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:	ooa.y oa.oa.ao.	1.0
ECON 1001 [0.5]	Introduction to Microeconomics	0
& ECON 1002 [0.5]	Introduction to Macroeconomics	
or		
PSYC 1001 [0.5]	Introduction to Psychology I	
	Introduction to Psychology I	
7. 1.0 credit in:	, , , , , , , , , , , , , , , , , , ,	1.0
STAT 2507 [0.5]	Introduction to Statistical Modeling I	1.0
STAT 2509 [0.5]	Introduction to Statistical Modeling	
01711 2000 [0.0]	II	
8. 1.0 credit in:		1.0
BIOL 2104 [0.5]	Introductory Genetics	
BIOL 2200 [0.5]	Cellular Biochemistry	
9. 1.0 credit in approvelectives	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	electives.	3.0
NOTE: The maximum and concentrations for	allowed combined number of minors any student is two.	
Total Credits		20.0
Concentration in credits)	Biomedical Sciences (5.0	
1. 0.5 credit from:		0.5
CHEM 2203 [0.5]	Organic Chemistry I	0.0
FOOD 2001 [0.5]	Principles of Nutrition	
NEUR 2201 [0.5]	Cellular and Molecular	
NEON 2201 [0.3]	Neuroscience	
PSYC 2301 [0.5]	Introduction to Health Psychology	
2. 2.5 credits in:		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	
. 12111 0000 [0.0]	molocular and Condian Fathology II	

3. 0.5 credit from:		0.5	HLTH 2004 [0.5]	Microbiology and Virology	
HLTH 4201 [0.5]	Applied Health Statistics		NEUR 2202 [0.5]	Neurodevelopment and Plasticity	
HLTH 4202 [0.5]	Health Program Evaluation Tools		PSYC 2301 [0.5]	Introduction to Health Psychology	
	and Methods		3. 2.5 credits in:		2.5
4. 1.0 credit from:		1.0	BIOL 3305 [0.5]	Human and Comparative	
COMS 2500 [0.5]	Communication and Science			Physiology	
HLTH 3401 [0.5]	Diseases of Childhood			.fHuman Anatomy and Physiology	
HLTH 3402 [0.5] HLTH 3503 [0.5]	Diseases of Aging Disability and Chronic Health		BIOL 3307 [0.5]	Advanced Human Anatomy and Physiology	
HLTH 4102 [0.5]	Conditions New Health Technologies		HLTH 3503 [0.5]	Disability and Chronic Health Conditions	
HLTH 4301 [0.5]	Pandemics and Infectious Disease		HLTH 4502 [0.5]	Disabilities and Disorders Related	
HLTH 4302 [0.5]	Inflammatory and Endocrine			to Sensory Nervous System	
	Factors in Diseases		HLTH 4503 [0.5]	Trauma-related Disability and Impairments	
HLTH 4303 [0.5]	Fundamentals in Pharmacology and Toxicology		4. 0.5 credit from:	P	0.5
HLTH 4401 [0.5]	Maternal and Perinatal		HLTH 4201 [0.5]	Applied Health Statistics	
112111 4401 [0.0]	Determinants of Health		HLTH 4202 [0.5]	Health Program Evaluation Tools	
HLTH 4502 [0.5]	Disabilities and Disorders Related			and Methods	
	to Sensory Nervous System		5. 1.0 credit from:		1.0
HLTH 4503 [0.5]	Trauma-related Disability and		BIOL 3501 [0.5]	Biomechanics	
	Impairments		COMS 2500 [0.5]	Communication and Science	
5. 0.5 credit from: BIOL 3202 [0.5]	Principles of Developmental	0.5	HLTH 3103 [0.5]	Health Policy and Canada's Health Care System	
DIOL 0202 [0.0]	Biology		HLTH 3104 [0.5]	Regulatory Issues and Human	
BIOL 3501 [0.5]	Biomechanics		1121110101[0.0]	Health	
BIOL 4202 [0.5]	Mutagenesis and DNA Repair		HLTH 3401 [0.5]	Diseases of Childhood	
COMS 3412 [0.5]	Communication and Health		HLTH 3402 [0.5]	Diseases of Aging	
ECON 4460 [0.5]	Health Economics		HLTH 4302 [0.5]	Inflammatory and Endocrine	
	Food Microbiology			Factors in Diseases	
FOOD 3005 [0.5]	Food Microbiology Advanced Nutrition and Metabolism		NEUR 3501 [0.5]	Factors in Diseases Neurodegeneration and Aging	
FOOD 3005 [0.5] FOOD 4201 [0.5]	<u>.</u>		NEUR 3501 [0.5] 6. 0.5 credit from:		0.5
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5]	Advanced Nutrition and Metabolism Micronutrients and Health				0.5
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5]	Advanced Nutrition and Metabolism		6. 0.5 credit from:	Neurodegeneration and Aging	0.5
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5]	Advanced Nutrition and Metabolism Micronutrients and Health Health, Environment, and Society Indigenous Health in a Global World		6. 0.5 credit from: BIOC 3008 [0.5]	Neurodegeneration and Aging Bioinformatics	0.5
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5]	Advanced Nutrition and Metabolism 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 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5]	Advanced Nutrition and Metabolism 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] COMS 3412 [0.5]	Neurodegeneration and Aging Bioinformatics Molecular Genetics Principles of Developmental Biology	0.5
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5]	Advanced Nutrition and Metabolism 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] 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	0.5
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5]	Advanced Nutrition and Metabolism 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] 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 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5]	Advanced Nutrition and Metabolism 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] FOOD 3005 [0.5] FOOD 4103 [0.5]	Neurodegeneration and Aging Bioinformatics Molecular Genetics Principles of Developmental Biology Communication and Health Health Economics	0.5
FOOD 3005 [0.5] FOOD 4201 [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]	Advanced Nutrition and Metabolism 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] 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	0.5
FOOD 3005 [0.5] FOOD 4201 [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]	Advanced Nutrition and Metabolism 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		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]	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 3005 [0.5] FOOD 4201 [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]	Advanced Nutrition and Metabolism 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		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]	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	0.5
FOOD 3005 [0.5] FOOD 4201 [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]	Advanced Nutrition and Metabolism 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] 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	0.5
FOOD 3005 [0.5] FOOD 4201 [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]	Advanced Nutrition and Metabolism 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] FOOD 4202 [0.5] GEOG 3206 [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 3005 [0.5] FOOD 4201 [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]	Advanced Nutrition and Metabolism 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] 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 3005 [0.5] FOOD 4201 [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]	Advanced Nutrition and Metabolism 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	0.5
FOOD 3005 [0.5] FOOD 4201 [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] NEUR 3401 [0.5]	Advanced Nutrition and Metabolism 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 Gender and Health	0.5
FOOD 3005 [0.5] FOOD 4201 [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] NEUR 3401 [0.5] NEUR 3502 [0.5]	Advanced Nutrition and Metabolism 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 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 Pandemics and Infectious Disease Fundamentals in Pharmacology	0.5
FOOD 3005 [0.5] FOOD 4201 [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] NEUR 3401 [0.5] NEUR 3502 [0.5]	Advanced Nutrition and Metabolism 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]	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
FOOD 3005 [0.5] FOOD 4201 [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] NEUR 3401 [0.5] Total Credits Concentration in	Advanced Nutrition and Metabolism 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 4401 [0.5] HLTH 4303 [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 Maternal and Perinatal Determinants of Health	0.5
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [0.5] HLTH 4401 [0.5] HLTH 4701 [0.5] HLTH 4901 [0.5] NEUR 3304 [0.5] NEUR 3502 [0.5] Total Credits Concentration ir (5.5 credits)	Advanced Nutrition and Metabolism 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 4401 [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
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [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] Total Credits Concentration in (5.5 credits) 1. 0.5 credit in:	Advanced Nutrition and Metabolism 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 4401 [0.5] HLTH 4401 [0.5] HLTH 4401 [0.5] HLTH 4601 [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
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [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] Total Credits Concentration in (5.5 credits) 1. 0.5 credit in:	Advanced Nutrition and Metabolism 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	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 4301 [0.5] HLTH 4301 [0.5] HLTH 4401 [0.5] HLTH 4401 [0.5] HLTH 4701 [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 Directed Studies in Health	0.5
FOOD 3005 [0.5] FOOD 4201 [0.5] FOOD 4202 [0.5] GEOG 3206 [0.5] HLTH 3102 [0.5] HLTH 3103 [0.5] HLTH 3104 [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] Total Credits Concentration ir (5.5 credits) 1. 0.5 credit in: NEUR 2201 [0.5]	Advanced Nutrition and Metabolism 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	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 4401 [0.5] HLTH 4401 [0.5] HLTH 4401 [0.5] HLTH 4601 [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

NEUR 3502 [0.5]	Neurodevelopmental Determinants		HLTH 4101 [0.5]	Global Health Governance	
	of Mental Health		HLTH 4102 [0.5]	New Health Technologies	
Total Credits		5.5	HLTH 4301 [0.5]	Pandemics and Infectious Disease	
	Environment and Health (6.0		HLTH 4302 [0.5]	Inflammatory and Endocrine Factors in Diseases	
credits) 1. 1.0 credit in:		1.0	HLTH 4401 [0.5]	Maternal and Perinatal Determinants of Health	
BIOL 3305 [0.5]	Human and Comparative Physiology		HLTH 4502 [0.5]	Disabilities and Disorders Related to Sensory Nervous System	
or BIOL 3306 [0 CHEM 2800 [0.5]	.£Human Anatomy and Physiology Foundations for Environmental		HLTH 4503 [0.5]	Trauma-related Disability and Impairments	
OF IE IVI 2000 [0.5]	Chemistry		HLTH 4701 [0.5]	Knowledge Translation	
2. 0.5 credit from:		0.5	HLTH 4901 [0.5]	Directed Studies in Health	
FOOD 2001 [0.5]	Principles of Nutrition		Total Credits		6.0
HLTH 2004 [0.5]	Microbiology and Virology		Concentration in	Global Health (5.5 credits)	
NEUR 2201 [0.5]	Cellular and Molecular Neuroscience		1. 0.5 credit in:	Global Health (3.3 cledits)	0.5
PSYC 2301 [0.5]	Introduction to Health Psychology		BIOL 3305 [0.5]	Human and Comparative	
3. 2.5 credits in:		2.5		Physiology	
CHEM 3800 [0.5]	The Chemistry of Environmental		_	.tHuman Anatomy and Physiology	
III TH 0404 TO 53	Pollutants		2. 0.5 credit from:	Advanced Human Acataman	0.5
HLTH 3104 [0.5]	Regulatory Issues and Human Health		BIOL 3307 [0.5]	Advanced Human Anatomy and Physiology	
HLTH 3303 [0.5]	Molecular and Cellular Pathology II		CHEM 2203 [0.5]	Organic Chemistry I	
HLTH 4303 [0.5]	Fundamentals in Pharmacology		FOOD 2001 [0.5]	Principles of Nutrition	
HLTH 4601 [0.5]	and Toxicology Environmental Pollution and Health		NEUR 2201 [0.5]	Cellular and Molecular Neuroscience	
4. 0.5 credit from:		0.5	PSYC 2301 [0.5]	Introduction to Health Psychology	
HLTH 4201 [0.5]	Applied Health Statistics		3. 2.5 credits in:		2.5
HLTH 4202 [0.5]	Health Program Evaluation Tools and Methods		HLTH 2004 [0.5] HLTH 3102 [0.5]	Microbiology and Virology Indigenous Health in a Global	
5. 1.0 credit from:		1.0		World	
BIOL 3307 [0.5]	Advanced Human Anatomy and		HLTH 4101 [0.5]	Global Health Governance	
	Physiology		HLTH 4301 [0.5]	Pandemics and Infectious Disease	
BIOL 4202 [0.5]	Mutagenesis and DNA Repair		HLTH 4401 [0.5]	Maternal and Perinatal	
CHEM 4800 [0.5]	Atmospheric Chemistry		4.05	Determinants of Health	0.5
COMS 2500 [0.5]	Communication and Science		4. 0.5 credit from:	A 1:- d 1 - 14 - 04 - 4:-4:-	0.5
ECON 3804 [0.5]	Environmental Economics		HLTH 4201 [0.5]	Applied Health Statistics	
GEOG 3206 [0.5] HLTH 3401 [0.5]	Health, Environment, and Society Diseases of Childhood		HLTH 4202 [0.5]	Health Program Evaluation Tools and Methods	
HLTH 3401 [0.5]	Diseases of Aging		5. 1.0 credit from:	and mounded	1.0
NEUR 3401 [0.5]	Environmental Toxins and Mental		COMS 2500 [0.5]	Communication and Science	
142011 0401 [0.0]	Health		GEOG 3206 [0.5]	Health, Environment, and Society	
6. 0.5 credit from: BIOC 3008 [0.5]	Bioinformatics	0.5	HLTH 3103 [0.5]	Health Policy and Canada's Health Care System	
BIOL 3104 [0.5]	Molecular Genetics		HLTH 3104 [0.5]	Regulatory Issues and Human	
BIOL 3104 [0.5]	Principles of Developmental		HLTH 3303 [0.5]	Health Molecular and Cellular Pathology II	
COMS 2412 [0 5]	Biology Communication and Health		HLTH 3401 [0.5]	Diseases of Childhood	
COMS 3412 [0.5] ECON 4460 [0.5]	Communication and Health Health Economics		HLTH 3402 [0.5]	Diseases of Aging	
			HLTH 3403 [0.5]	Gender and Health	
FOOD 3005 [0.5] FOOD 4103 [0.5]	Food Microbiology Food Safety Risk Assessment		HLTH 3503 [0.5]	Disability and Chronic Health	
HLTH 3102 [0.5]	Indigenous Health in a Global		HLTH 4102 [0.5]	Conditions New Health Technologies	
ULTU 2402 [0 E1	World		HLTH 4303 [0.5]	Fundamentals in Pharmacology	
HLTH 3103 [0.5]	Health Policy and Canada's Health Care System			and Toxicology	
HLTH 3403 [0.5]	Gender and Health		HLTH 4601 [0.5]	Environmental Pollution and Health	0.5
HLTH 3503 [0.5]	Disability and Chronic Health		6. 0.5 credit from:	Dioinformatics	0.5
	Conditions		BIOC 3008 [0.5]	Bioinformatics	

	BIOL 3104 [0.5]	Molecular Genetics		HLTH 4303 [0.5]	Fundamentals in Pharmacology	
	COMS 3412 [0.5]	Communication and Health		NEUR 3501 [0.5]	and Toxicology	
	ECON 4460 [0.5]	Health Economics			Neurodegeneration and Aging	
	FOOD 3005 [0.5]	Food Microbiology		NEUR 3502 [0.5]	Neurodevelopmental Determinants of Mental Health	
	FOOD 4103 [0.5]	Food Safety Risk Assessment		6. 0.5 credit from:	C. Mortar Floater	0.5
	FOOD 4201 [0.5]	Advanced Nutrition and Metabolism		BIOC 3008 [0.5]	Bioinformatics	0.0
	FOOD 4202 [0.5]	Micronutrients and Health		BIOL 3104 [0.5]	Molecular Genetics	
	HLTH 4302 [0.5]	Inflammatory and Endocrine Factors in Diseases		BIOL 3202 [0.5]	Principles of Developmental	
	HLTH 4502 [0.5]	Disabilities and Disorders Related		DIOL 2504 [0.5]	Biology	
		to Sensory Nervous System		BIOL 3501 [0.5]	Biomechanics	
	HLTH 4503 [0.5]	Trauma-related Disability and		COMS 3412 [0.5]	Communication and Health	
	LILTLI 4704 [0 E1	Impairments Knowledge Translation		ECON 4460 [0.5]	Health Economics	
	HLTH 4701 [0.5]	Knowledge Translation		FOOD 3005 [0.5]	Food Safety Diek Assessment	
	HLTH 4901 [0.5]	Directed Studies in Health		FOOD 4103 [0.5]	Food Safety Risk Assessment	
	NEUR 3304 [0.5]	Hormones and Behaviour		FOOD 4201 [0.5]	Advanced Nutrition and Metabolism	
	NEUR 3401 [0.5]	Environmental Toxins and Mental 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		HLTH 3102 [0.5]	Indigenous Health in a Global World	
		of Mental Health		HLTH 3104 [0.5]	Regulatory Issues and Human	
Te	otal Credits		5.5		Health	
С	oncentration in	Health Throughout the Lifes	span	HLTH 4101 [0.5]	Global Health Governance	
	5.5 credits)		, , , , , , , , , , , , , , , , , , , 	HLTH 4301 [0.5]	Pandemics and Infectious Disease	
`	0.5 credit in:		0.5	HLTH 4502 [0.5]	Disabilities and Disorders Related to Sensory Nervous System	
	NEUR 2201 [0.5]	Cellular and Molecular Neuroscience		HLTH 4503 [0.5]	Trauma-related Disability and Impairments	
2.	0.5 credit from:		0.5	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	
	PSYC 2301 [0.5]	Introduction to Health Psychology			Health	
3.	2.5 credits in:		2.5	Total Credits		5.5
	BIOL 3305 [0.5]	Human and Comparative Physiology		Health Sciences		
	or BIOL 3306 [0.	Human Anatomy and Physiology		B.H.Sc. (15.0 cre	edits)	
	BIOL 3307 [0.5]	Advanced Human Anatomy and		A. Credits Included i	in the Major CGPA (7.0 credits)	
		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		2. 1.0 credit in:		1.0
	£1	and Methods		STAT 2507 [0.5]	Introduction to Statistical Modeling I	
5.	1.0 credit from:		1.0	STAT 2509 [0.5]	Introduction to Statistical Modeling	
	COMS 2500 [0.5]	Communication and Science			II	
		Health Policy and Canada's Health		3. 0.5 credit from:		0.5
	HLTH 3103 [0.5]	•			Human and Comparative	
		Care System		BIOL 3305 [0.5]	Human and Comparative Physiology	
	HLTH 3303 [0.5]	Care System Molecular and Cellular Pathology II			Physiology	
	HLTH 3303 [0.5] HLTH 3403 [0.5]	Care System Molecular and Cellular Pathology II Gender and Health		BIOL 3306 [0.5]		0.5
	HLTH 3303 [0.5]	Care System Molecular and Cellular Pathology II		BIOL 3306 [0.5] 4. 0.5 credit from :	Physiology Human Anatomy and Physiology	0.5
	HLTH 3303 [0.5] HLTH 3403 [0.5]	Care System Molecular and Cellular Pathology II Gender and Health Disability and Chronic Health		BIOL 3306 [0.5] 4. 0.5 credit from: CHEM 2203 [0.5]	Physiology Human Anatomy and Physiology Organic Chemistry I	0.5
	HLTH 3303 [0.5] HLTH 3403 [0.5] HLTH 3503 [0.5]	Care System Molecular and Cellular Pathology II Gender and Health Disability and Chronic Health Conditions		BIOL 3306 [0.5] 4. 0.5 credit from :	Physiology Human Anatomy and Physiology	0.5

	PSYC 2301 [0.5]	Introduction to Health Psychology		5. 0.5 credit from - J	ournalism Publications:	0.5
5.	2.5 credits from:		2.5	JOUR 4003 [0.5]	The Digital Hub: Advanced	
	HLTH 2004 [0.5]	Microbiology and Virology			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		6. 0.5 credit from - S	specialized 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			Professional Skills and/or	1.0
	HLTH 3302 [0.5]	Immunity and Immune-Related Disorders		Investigating Journa Professional Skills	alism:	
	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		JOUR 4402 [0.5]	Storytelling Professional Skills: Longform	
	HLTH 3503 [0.5]	Disability and Chronic Health Conditions		JOUR 4403 [0.5]	Writing Professional Skills: Strategic	
В	. Credits Not Includ	led in the Major CGPA (8.0 credits)			Communication	
6.	2.5 credits in:		2.5	JOUR 4404 [0.5]	Professional Skills: Freelancing for	
	BIOL 1103 [0.5]	Foundations of Biology I		lares attachter a lares	Media Professionals	
	BIOL 1104 [0.5]	Foundations of Biology II		Investigating Journa		
	CHEM 1001 [0.5] CHEM 1002 [0.5]	General Chemistry I General Chemistry II		JOUR 4500 [0.5]	Investigating Journalism: Special Topic	
	MATH 1007 [0.5]	Elementary Calculus I	4.0	JOUR 4501 [0.5]	Investigating Journalism: Gender, Identity and Inequality	
7.	1.0 credit from: ECON 1001 [0.5]	Introduction to Microeconomics	1.0	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			Journalism, Indigenous Peoples	
	PSYC 1002 [0.5]	Introduction to Psychology II			and Canada	
8.	0.5 credit from:		0.5	JOUR 4504 [0.5]	Investigating Journalism: The Media and International	
	PHIL 1550 [0.5]	Introduction to Ethics and Social Issues		10110 4505 14 01	Development	
	PHIL 2408 [0.5]	Bioethics		JOUR 4505 [1.0]	Investigating Journalism: The Power and Politics of Government	
9.	4.0 credits in free	electives	4.0	B. Credits Not Include	ded in the Major CGPA (12.0	
To	otal Credits		15.0	credits)		
Je	ournalism with	Concentration in Health		8. 1.0 credit in:		1.0
_	ciences			BIOL 1103 [0.5]	Foundations of Biology I	
В	.J. Honours (20	.0 credits)		BIOL 1104 [0.5]	Foundations of Biology II	
Δ	Credits Included i	n the Major CGPA (8.0 credits)		9. 2.0 credits in Heal	Ith Science courses:	2.0
	1.0 credit in:	in the major CO. At (old disculte)	1.0	HLTH 1001 [0.5]	Principles of Health I	
	JOUR 1001 [0.5]	Foundations: Journalism in Context		HLTH 2001 [0.5]	Health Research Methods and Skills	
	JOUR 1002 [0.5]	Foundations: Practicing Journalism in a Diverse Society		HLTH 2002 [0.5]	Molecular and Cellular Pathology	
2	2.0 credits in:	in a Diverse Society	2.0	HLTH 2003 [0.5]	Social Determinants of Health	
	JOUR 2201 [1.0]	Fundamentals of Reporting	2.0	10. 1.0 credit in a ca	pstone course:	1.0
	JOUR 2203 [0.5]	Civics for Journalists		NSCI 4901 [1.0]	Science Journalism Independent	
	JOUR 2501 [0.5]	Media Law			Project	
3.	2.5 credits in:		2.5		tives in Health Sciences, including gy, 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		1.1.01 1001 [0.0]	Canadian History	
	JOUR 3235 [0.5]	Digital Journalism		HIST 1302 [0.5]	Rethinking Modern Canadian	
	JOUR 3300 [0.5]	Media Ethics in a Digital World			History	
4.	0.5 credit in:		0.5	HIST 2301 [0.5]	Canadian Political History	
	JOUR 4001 [0.5]	Journalism Now - and Next				

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:)	
b. 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	
13. 5.0 credits in free	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:

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

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 2024-25 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, non-verbal 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

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]

of the department.

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

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

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.