Health Sciences

Graduation Requirements

In addition to the requirements listed below, 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.

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)

Λ.	Oreans included i	in the major our A (10.0 credits)				
1.	2.0 credits in:		2.0			
	HLTH 1000 [0.5]	Fundamentals of Health				
	HLTH 2001 [0.5]	Health Research Methods and Skills				
	HLTH 2002 [0.5]	Biochemical Basis of Health and Pathology I				
	HLTH 2003 [0.5]	Social Determinants of Health				
2.	1.5 credits in:		1.5			
	a) Project/Field Placement Stream					
	0.5 credit from:					
	HLTH 3901 [0.5]	Emerging Issues in Biomedical Science				
	HLTH 3902 [0.5]	Emerging Issues in Global Health				
	HLTH 3903 [0.5]	Emerging Issues in Environment and Health				
	HLTH 3904 [0.5]	Emerging Issues in Health Throughout the Lifespan				
	HLTH 3905 [0.5]	Emerging Issues in Disabilities and Chronic Illness				
	and					
	1.0 credit from:					
	HLTH 4907 [1.0]	Capstone Course – Group Research Project				
	HLTH 4908 [1.0]	Capstone Course – Individual Research Project				
	HLTH 4909 [1.0]	Capstone Course – Field Placement				
	OR					
	b) Essay Stream					
	0.5 credit in HLTH	elective at the 3000 level or above				
	and					
	1.0 credit in:					
	HLTH 4906 [1.0]	Capstone course – Research Essay				
3.	2.5 credits in HLTI	H at the 3000 level or above	2.5			
	4.0 credits in condabove	centration electives at the 3000 level	4.0			
	Credits Not Included	led 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	4.0
6.	1.0 credit from:		1.0
	ECON 1000 [1.0]	Introduction to Economics	
	PSYC 1001 [0.5]	Introduction to Psychology I	
_	PSYC 1002 [0.5]	Introduction to Psychology II	4.0
۲.	1.0 credit in:	Interestination to Otatistical Madelinas I	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	
9.		ved 2000-level concentration	0.5
	ectives		
10	0.5 credit from:		0.5
	PHIL 1550 [0.5]	Introduction to Ethics and Social	
		Issues	
	PHIL 2408 [0.5]	Bioethics	
11	. 3.5 credits in free	e electives.	3.5
		allowed combined number of minors	
_	nd concentrations for	any student is two.	
To	otal Credits		20.0
		medical Sciences (7.0 credits)	
1.	0.5 credit from:		0.5
	BIOL 2303 [0.5]	Microbiology	
	CHEM 2800 [0.5]	Foundations for Environmental Chemistry	
	FOOD 2001 [0.5]	Principles of Nutrition	
	NEUR 2200 [0.5]	Biological Foundations of Behaviour	
	PSYC 2301 [0.5]	Introduction to Health Psychology	
2.	3.5 credits in:	macdadan to ricalar regeneragy	3.5
	BIOL 3104 [0.5]	Molecular Genetics	0.0
	BIOL 3305 [0.5]	Human and Comparative	
	DIOL 2200 IO E1	Physiology	
	or BIOL 3306 [0.5]	Human Anatomy and Physiology	
	BIOL 3307 [0.5]	Advanced Human Anatomy and Physiology	
	HLTH 2004 [0.5]	Microbiology and Virology	
	HLTH 2004 [0.5] HLTH 3201 [0.5]	Microbiology and Virology Epidemiology	
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	HLTH 3201 [0.5]	Epidemiology Immunity and Immune-Related Disorders Biochemical Basis of Health and	
3.	HLTH 3201 [0.5] HLTH 3302 [0.5]	Epidemiology Immunity and Immune-Related Disorders	0.5
3.	HLTH 3201 [0.5] HLTH 3302 [0.5] HLTH 3303 [0.5] 0.5 credit from:	Epidemiology Immunity and Immune-Related Disorders Biochemical Basis of Health and Pathology II	0.5
3.	HLTH 3201 [0.5] HLTH 3302 [0.5] HLTH 3303 [0.5] 0.5 credit from: HLTH 4201 [0.5]	Epidemiology Immunity and Immune-Related Disorders Biochemical Basis of Health and Pathology II Advanced and Quantitative Epidemiology	0.5
3.	HLTH 3201 [0.5] HLTH 3302 [0.5] HLTH 3303 [0.5] 0.5 credit from:	Epidemiology Immunity and Immune-Related Disorders Biochemical Basis of Health and Pathology II Advanced and Quantitative	0.5
	HLTH 3201 [0.5] HLTH 3302 [0.5] HLTH 3303 [0.5] 0.5 credit from: HLTH 4201 [0.5]	Epidemiology Immunity and Immune-Related Disorders Biochemical Basis of Health and Pathology II Advanced and Quantitative Epidemiology Health Program Evaluation Tools	0.5
	HLTH 3201 [0.5] HLTH 3302 [0.5] HLTH 3303 [0.5] 0.5 credit from: HLTH 4201 [0.5] HLTH 4202 [0.5]	Epidemiology Immunity and Immune-Related Disorders Biochemical Basis of Health and Pathology II Advanced and Quantitative Epidemiology Health Program Evaluation Tools	
	HLTH 3201 [0.5] HLTH 3302 [0.5] HLTH 3303 [0.5] 0.5 credit from: HLTH 4201 [0.5] HLTH 4202 [0.5] 1.5 credit from:	Epidemiology Immunity and Immune-Related Disorders Biochemical Basis of Health and Pathology II Advanced and Quantitative Epidemiology Health Program Evaluation Tools and Methods	
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HLTH 4301 [0.5] Pandemics and Infectious Diseases HLTH 4303 [0.5] Inflammatory and Endocrine Factors in Diseases Pharmacochierapeutics NEUR 3501 [0.5] Neurodegeneration and Aging HLTH 3501 [0.5] Osensory Processes and Movement Neurodegeneration and Aging HLTH 4302 [0.5] New Health Technologies Psychosocial and Biological Movement Neurodegeneration and Metabolism FOOU 4202 [0.5] Neurodifficial metabolism Foou 4202 [0.5] Neurodifficia							
HLTH 4303 [0.5] Pharmacotherapeutics Neurodegeneration and Aging 1.0					BIOL 3307 [0.5]	•	
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BIOL 3202 [0.5] Principles of Developmental BIOL 3202 [0.5] Biomechanics BIOL 4202 [0.5] Biomechanics BIOL 4202 [0.5] Mustagenesis and DNA Repair ECOM 4469 [0.5] Health Economics FOOD 3005 [0.5] Food Microbiology Mustagenesis and DNA Repair ECOM 4469 [0.5] Health Economics FOOD 4202 [0.5] Mustagenesis and DNA Repair FOOD 4202 [0.5] Mustagenesis and Mustagenesis and DNA Repair FOOD 4202 [0.5] Mustagenesis and Mustagenesi	NEUR 3501 [0.5]	Neurodegeneration and Aging					
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FOOD 2001 [0.5] Principles of Nutrition PSYC 2301 [0.5] Introduction to Health Psychology 3. 3.5 credits in: BIOL 3305 [0.5] Human and Comparative Physiology Or BIOL 3306 [0.5] Human Anatomy and Physiology HLTH 4101 [0.5] Global Health Governance HLTH 4201 [0.5] Advanced and Quantitative Epidemiology HLTH 4301 [0.5] Pandemics and Infectious Disease HLTH 4303 [0.5] Pharmacotherapeutics HLTH 4401 [0.5] Maternal and Prenatal	2000 [0.0]				HLTH 3403 [0.5]	• • • • • • • • • • • • • • • • • • • •	
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3. 3.5 credits in: BIOL 3305 [0.5] Human and Comparative Physiology Or BIOL 3306 [0.5] Human Anatomy and Physiology HLTH 4301 [0.5] Pandemics and Infectious Disease HLTH 4303 [0.5] Pharmacotherapeutics HLTH 4401 [0.5] Maternal and Prenatal		Introduction to Health Psychology					
Physiology HLTH 4303 [0.5] Pharmacotherapeutics or BIOL 3306 [0.5] Human Anatomy and Physiology HLTH 4401 [0.5] Maternal and Prenatal	3. 3.5 credits in:		3.5		F 1		
or BIOL 3306 [0.5] Human Anatomy and Physiology HLTH 4401 [0.5] Maternal and Prenatal	BIOL 3305 [0.5]	Human and Comparative			HLTH 4301 [0.5]	Pandemics and Infectious Disease	
i i					HLTH 4303 [0.5]	Pharmacotherapeutics	
	or BIOL 3306 [0.5]	Human Anatomy and Physiology			HLTH 4401 [0.5]		

HLTH 4601 [0.5]	Environmental Pollution and Health	
HLTH 4701 [0.5]	Knowledge Translation	
HLTH 4901 [0.5]	Directed Studies in Health	
Total Credits	Directed etadles in Fleatin	7.5
		7.5
	vironment and Health (8.0 credits)	
1. 1.0 credit in:		1.0
BIOL 2005 [0.5]	Human Physiology	
CHEM 2800 [0.5]	Foundations for Environmental Chemistry	
2. 0.5 credit from:	Chemistry	0.5
BIOL 2303 [0.5]	Microbiology	0.0
FOOD 2001 [0.5]	Principles of Nutrition	
NEUR 2200 [0.5]	Biological Foundations of	
	Behaviour	
PSYC 2301 [0.5]	Introduction to Health Psychology	
3. 3.5 credits in:		3.5
BIOC 4708 [0.5]	Principles of Toxicology	
CHEM 3800 [0.5]	The Chemistry of Environmental Pollutants	
HLTH 3104 [0.5]	Regulatory Issues and Human Health	
HLTH 3201 [0.5]	Epidemiology	
HLTH 3302 [0.5]	Immunity and Immune-Related	
	Disorders	
HLTH 3303 [0.5]	Biochemical Basis of Health and Pathology II	
HLTH 4601 [0.5]	Environmental Pollution and Health	
4. 0.5 credit from:		0.5
HLTH 4201 [0.5]	Advanced and Quantitative Epidemiology	
HLTH 4202 [0.5]	Health Program Evaluation Tools and Methods	
5. 1.5 credits from:		1.5
BIOL 4202 [0.5]	Mutagenesis and DNA Repair	
CHEM 4800 [0.5]	Atmospheric Chemistry	
ECON 3804 [0.5]	Environmental Economics	
GEOG 3206 [0.5]	Health, Environment, and Society	
HLTH 3101 [0.5]	Global Health	
HLTH 3402 [0.5]	Diseases of Aging	
HLTH 4303 [0.5]	Pharmacotherapeutics	
NEUR 3401 [0.5]	Environmental Toxins and Mental Health	
6. 1.0 credit from:		1.0
BIOC 3008 [0.5]	Bioinformatics	
BIOL 3104 [0.5]	Molecular Genetics	
BIOL 3202 [0.5]	Principles of Developmental Biology	
BIOL 3305 [0.5]	Human and Comparative Physiology	
or BIOL 3306 [0.5]	Human Anatomy and Physiology	
BIOL 3307 [0.5]	Advanced Human Anatomy and Physiology	
ECON 4460 [0.5]	Health Economics	
FOOD 3005 [0.5]	Food Microbiology	
FOOD 4103 [0.5]	Food Safety Risk Assessment,	
[0.0]	Communication and Management I	
HLTH 2004 [0.5]	Microbiology and Virology	

HLTH 3102 [0.5]	Indigenous Health in a Global World	
HLTH 3103 [0.5]	Health Policy and Canada's Health Care System	
HLTH 3401 [0.5]	Diseases of Childhood	
HLTH 3403 [0.5]	Gender and Health	
HLTH 3501 [0.5]	Diseases and Disabilities Related to Sensory Processes and Movement	
HLTH 3502 [0.5]	Trauma-related Illness and Disability	
HLTH 4101 [0.5]	Global Health Governance	
HLTH 4102 [0.5]	New Health Technologies	
HLTH 4301 [0.5]	Pandemics and Infectious Disease	
HLTH 4302 [0.5]	Inflammatory and Endocrine Factors in Diseases	
HLTH 4401 [0.5]	Maternal and Prenatal Determinants of Health	
HLTH 4402 [0.5]	Psychosocial and Biological Mechanisms of Health	
HLTH 4501 [0.5]	Chronic Illness and Disability	
HLTH 4701 [0.5]	Knowledge Translation	
HLTH 4901 [0.5]	Directed Studies in Health	
Total Credits		8.0
Concentration in Gl	obal Health (7.5 credits)	
1. 0.5 credit in:	obal fleatili (7.3 cledits)	0.5
BIOL 2005 [0.5]	Human Physiology	0.0
2. 0.5 credit from:	Tramair Hydiology	0.5
BIOL 2303 [0.5]	Microbiology	
CHEM 2800 [0.5]	Foundations for Environmental Chemistry	
FOOD 2001 [0.5]	Principles of Nutrition	
NEUR 2200 [0.5]	Biological Foundations of Behaviour	
PSYC 2301 [0.5]	Introduction to Health Psychology	
3. 3.5 credits in:		3.5
HLTH 3101 [0.5]	Global Health	
HLTH 2004 [0.5]	Microbiology and Virology	
HLTH 3102 [0.5]	Indigenous Health in a Global World	
HLTH 3201 [0.5]	Epidemiology	
HLTH 4101 [0.5]	Global Health Governance	
HLTH 4301 [0.5]	Pandemics and Infectious Disease	
HLTH 4401 [0.5]	Maternal and Prenatal Determinants of Health	
4. 0.5 credit from:		0.5
HLTH 4201 [0.5]	Advanced and Quantitative Epidemiology	
HLTH 4202 [0.5]	Health Program Evaluation Tools and Methods	
5. 1.5 credit from:		1.5
GEOG 3206 [0.5]	Health, Environment, and Society	
HLTH 3103 [0.5]	Health Policy and Canada's Health Care System	
HLTH 3104 [0.5]	Regulatory Issues and Human Health	
HLTH 3303 [0.5]	D	
	Biochemical Basis of Health and Pathology II	
HLTH 3403 [0.5]		

HLTH 4102 [0.5]	New Health Technologies		HLTH 3302 [0.5]	Immunity and Immune-Related	
HLTH 4303 [0.5] Pharmacotherapeutics				Disorders	
HLTH 4601 [0.5] Environmental Pollution and			HLTH 3401 [0.5]	Diseases of Childhood	
6. 1.0 credit from:		1.0	HLTH 3402 [0.5]	Diseases of Aging	
BIOC 3008 [0.5]	Bioinformatics		HLTH 4401 [0.5]	Maternal and Prenatal	
BIOC 4708 [0.5]	Principles of Toxicology			Determinants of Health	
BIOL 3305 [0.5]	Human and Comparative		4. 0.5 credit from:	A.I	0.5
or BIOL 3306 [0.5]	Physiology Human Anatomy and Physiology		HLTH 4201 [0.5]	Advanced and Quantitative Epidemiology	
BIOL 3307 [0.5]	Advanced Human Anatomy and		HLTH 4202 [0.5]	Health Program Evaluation Tools	
DIOL 3307 [0.3]	Physiology			and Methods	
BIOL 3104 [0.5]	Molecular Genetics		5. 1.5 credits from:		1.5
ECON 4460 [0.5]	Health Economics		HLTH 3103 [0.5]	Health Policy and Canada's Health	
FOOD 3005 [0.5]	Food Microbiology		LILTH 2202 [0 F]	Care System	
FOOD 4103 [0.5]	Food Safety Risk Assessment, Communication and Management I		HLTH 3303 [0.5]	Biochemical Basis of Health and Pathology II	
FOOD 4201 [0.5]	Advanced Nutrition and Metabolism		HLTH 3403 [0.5]	Gender and Health	
FOOD 4202 [0.5]	Micronutrients and Health		HLTH 4302 [0.5]	Inflammatory and Endocrine	
HLTH 3302 [0.5]	Immunity and Immune-Related		LUTU 4400 F0 F1	Factors in Diseases	
	Disorders		HLTH 4402 [0.5]	Psychosocial and Biological Mechanisms of Health	
HLTH 3401 [0.5]	Diseases of Childhood		HLTH 4501 [0.5]	Chronic Illness and Disability	
HLTH 3402 [0.5] HLTH 3501 [0.5]	Diseases of Aging Diseases and Disabilities Related		NEUR 3501 [0.5]	Neurodegeneration and Aging	
ПЕТП 3301 [0.5]	to Sensory Processes and Movement		NEUR 3502 [0.5]	Neurodevelopmental Determinants of Mental Health	
HLTH 3502 [0.5]	Trauma-related Illness and		6. 1.0 credit from:		1.0
	Disability		HLTH 2004 [0.5]	Microbiology and Virology	
HLTH 4302 [0.5]	Inflammatory and Endocrine		BIOC 3008 [0.5]	Bioinformatics	
	Factors in Diseases		BIOC 4708 [0.5]	Principles of Toxicology	
HLTH 4402 [0.5]	Psychosocial and Biological Mechanisms of Health		BIOL 3104 [0.5] BIOL 3202 [0.5]	Molecular Genetics Principles of Developmental	
HLTH 4501 [0.5]	Chronic Illness and Disability			Biology	
HLTH 4701 [0.5]	Knowledge Translation		BIOL 3501 [0.5]	Biomechanics	
HLTH 4901 [0.5]	Directed Studies in Health		ECON 4460 [0.5]	Health Economics	
NEUR 3304 [0.5]	Hormones and Behaviour		FOOD 3005 [0.5]	Food Microbiology	
NEUR 3401 [0.5]	Environmental Toxins and Mental Health		FOOD 4103 [0.5]	Food Safety Risk Assessment, Communication and Management I	
NEUR 3501 [0.5]	Neurodegeneration and Aging		FOOD 4201 [0.5]	Advanced Nutrition and Metabolism	
NEUR 3502 [0.5]	Neurodevelopmental Determinants		FOOD 4202 [0.5]	Micronutrients and Health	
	of Mental Health		GEOG 3206 [0.5]	Health, Environment, and Society	
Total Credits		7.5	HLTH 3101 [0.5]	Global Health	
Concentration in Hea	alth Throughout the Lifespan (7.5		HLTH 3102 [0.5]	Indigenous Health in a Global World	
1. 0.5 credit in:		0.5	HLTH 3104 [0.5]	Regulatory Issues and Human Health	
NEUR 2200 [0.5]	Biological Foundations of Behaviour		HLTH 3501 [0.5]	Diseases and Disabilities Related	
2. 0.5 credit from:		0.5		to Sensory Processes and Movement	
BIOL 2303 [0.5]	Microbiology		HLTH 3502 [0.5]	Trauma-related Illness and	
CHEM 2800 [0.5]	Foundations for Environmental Chemistry		HLTH 4101 [0.5]	Disability Global Health Governance	
FOOD 2001 [0.5]	Principles of Nutrition		HLTH 4102 [0.5]	New Health Technologies	
PSYC 2301 [0.5]	Introduction to Health Psychology		HLTH 4301 [0.5]	Pandemics and Infectious Disease	
3. 3.5 credits in:		3.5	HLTH 4303 [0.5]	Pharmacotherapeutics	
BIOL 3305 [0.5]	Human and Comparative		HLTH 4601 [0.5]	Environmental Pollution and Health	
	Physiology		HLTH 4701 [0.5]	Knowledge Translation	
	Human Anatomy and Physiology		HLTH 4901 [0.5]	Directed Studies in Health	
BIOL 3307 [0.5]	Advanced Human Anatomy and		NEUR 3304 [0.5]	Hormones and Behaviour	
ULTIL 2004 to 53	Physiology				
HLTH 3201 [0.5]	Epidemiology				

	NEUR 3401 [0.5]	Environmental Toxins and Mental Health	
То	tal Credits		7.5
Н	ealth Sciences		
В.	H.Sc. General (15.0 credits)	
		n the Major CGPA (6.5 credits)	
	2.0 credits in:	Title Major Gol A (0.0 credits)	2.0
••	HLTH 1000 [0.5]	Fundamentals of Health	2.0
	HLTH 2001 [0.5]	Health Research Methods and Skills	
	HLTH 2002 [0.5]	Biochemical Basis of Health and Pathology I	
	HLTH 2003 [0.5]	Social Determinants of Health	
2.	1.0 credit in:		1.0
	STAT 2507 [0.5]	Introduction to Statistical Modeling I	
	STAT 2509 [0.5]	Introduction to Statistical Modeling	
3.	0.5 credit in:		0.5
	BIOL 2005 [0.5]	Human Physiology	
4.	0.5 credit from:		0.5
	BIOL 2303 [0.5]	Microbiology	
	CHEM 2800 [0.5]	Foundations for Environmental Chemistry	
	FOOD 2001 [0.5]	Principles of Nutrition	
	NEUR 2200 [0.5]	Biological Foundations of Behaviour	
	PSYC 2301 [0.5]	Introduction to Health Psychology	
5.	2.5 credits from:		2.5
	HLTH 3101 [0.5]	Global Health	
		Health Policy and Canada's Health C System	are
	HLTH 3201 [0.5]	Epidemiology	
	HLTH 3301 or HLTH	1 3302 or HLTH 3303	
	HLTH 3401 [0.5]	Diseases of Childhood	
	or HLTH 3402 [0.5]	0 0	
	HLTH 3501 [0.5]	Diseases and Disabilities Related to Sensory Processes and Movement	
	or HLTH 3502 [0.5]	Trauma-related Illness and Disability	
В.	Credits Not Includ	ed in the Major CGPA (8.5 credits)	
6.	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	
7.	1.0 credit from:		1.0
	ECON 1000 [1.0]	Introduction to Economics	
	PSYC 1001 [0.5]	Introduction to Psychology I	
	PSYC 1002 [0.5]	Introduction to Psychology II	
8.	0.5 credit from:		0.5
	PHIL 1550 [0.5]	Introduction to Ethics and Social Issues	
	PHIL 2408 [0.5]	Bioethics	
9.	4.5 credits in free	electives.	4.5
То	tal Credits		15.0

Department of Health Sciences Faculty of Science

HLTH 1000 [0.5 credit] Fundamentals of Health

Introduction to what comprises a healthy body and mind, and what leads to illness and disease. Students will be exposed to biomedical, psychosocial, and epidemiological approaches to current issues in the field of health and a a basic of understanding of policy, and cultural/environmental contexts.

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

HLTH 1001 [0.5 credit] Principles of Health

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

Precludes additional credit for HLTH 1000. Credit will not be given if taken concurrently with, or after, HLTH 1000. 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.

Prerequisite(s): HLTH 1000 or HLTH 1001. Lecture three hours a week, lab/workshop two hours a week.

HLTH 2002 [0.5 credit]

Biochemical Basis of Health and Pathology I

Introduction to the structures and properties of macromolecules that underlie the range of functions that comprise cellular processes. Topics will include the molecular and thermodynamic basis of disease and the action of therapeutics. Examples will be health related. Prerequisite(s): HLTH 1000, BIOL 1103 and CHEM 1002. Lecture three hours a week, workshop two 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. Prerequisite(s): HLTH 1000 or permission of the instructor. Lecture three hours a week

HLTH 3101 [0.5 credit] Global Health

Overview of issues in global health with focus on developing countries. Key indicators and determinants of global health, implementation and evaluation of global programs, challenges of research and interventions in the developing world, and key players in addressing global health issues.

Prerequisite(s): HLTH 2003 and HLTH 2004, or permission of the instructor.

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 2003, or permission of the instructor.

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 instructor.

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 instructor.

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.

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

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.

Prerequisite(s): HLTH 2002 or permission of instructor. Lecture three hours a week.

HLTH 3303 [0.5 credit]

Biochemical Basis of Health and Pathology II

Introduction to the functional properties of macromolecules that underlie cellular and physiological processes. Examples will be health related.

Prerequisite(s): HLTH 2002.

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

HLTH 3401 [0.5 credit] Diseases of Childhood

Childhood diseases, including those of a psychological as well as physical nature stemming from either genetic, prenatal, or postnatal factors, and those of unknown origin. The contribution of psychosocial and economic determinants.

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

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 instructor.

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 1000 or HLTH 1001. Lecture and seminar three hours a week.

HLTH 3501 [0.5 credit]

Diseases and Disabilities Related to Sensory Processes and Movement

Neurobiological processes related to sensation, proprioception, reflex and voluntary movement, disorders of the nervous system and sensory systems. Conditions associated with pathology related to genetic and developmental factors, accident, and aging.

Prerequisite(s): (HLTH 1000 or HLTH 1001) and (BIOL 2005 or BIOL 3305 or BIOL 3306) or permission of instructor.

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

HLTH 3502 [0.5 credit]

Trauma-related Illness and Disability

Neurobiological and psychological factors associated with trauma and effects on behavioural functioning. Consequences of traumatic brain injury, burns, amputations, chronic severe illnesses; chronic strain encountered in workplace. Consideration of treatment and rehabilitation strategies.

Prerequisite(s): HLTH 2003 and (BIOL 2005 or BIOL 3305 or BIOL 3306) or permission of instructor.

Lecture three hours a week.

HLTH 3901 [0.5 credit]

Emerging Issues in Biomedical Science

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

Prerequisite(s): third-year standing in the specific stream of the B.H.Sc. program appropriate to the course, a major CGPA of at least 9.0 and permission of the Department of Health Sciences. Priority will be given to students in the B.H.Sc. program.

Seminars three hours a week.

HLTH 3902 [0.5 credit]

Emerging Issues in Global Health

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

Prerequisite(s): third-year standing in the specific stream of the B.H.Sc. program appropriate to the course, a major CGPA of at least 9.0 and permission of the Department of Health Sciences. Priority will be given to students in the B.H.Sc. program.

Seminars three hours a week.

HLTH 3903 [0.5 credit]

Emerging Issues in Environment and Health

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

Prerequisite(s): third-year standing in the specific stream of the B.H.Sc. program appropriate to the course, a major CGPA of at least 9.0 and permission of the Department of Health Sciences. Priority will be given to students in the B.H.Sc. program.

Seminars three hours a week.

HLTH 3904 [0.5 credit]

Emerging Issues in Health Throughout the Lifespan

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

Prerequisite(s): third-year standing in the specific stream of the B.H.Sc. program appropriate to the course, a major CGPA of at least 9.0 and permission of the Department of Health Sciences. Priority will be given to students in the B.H.Sc. program.

Seminars three hours a week.

HLTH 3905 [0.5 credit]

Emerging Issues in Disabilities and Chronic Illness

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

Prerequisite(s): third-year standing in the specific stream of the B.H.Sc. program appropriate to the course, a major CGPA of at least 9.0 and permission of the Department of Health Sciences. Priority will be given to students in the B.H.Sc. program.

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 instructor.

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) or permission of the instructor.

Lecture and seminar three hours a week.

HLTH 4201 [0.5 credit]

Advanced and Quantitative Epidemiology

Epidemiologic study designs and measures; fundamentals of statistical evaluation of epidemiologic data sets. How epidemiology can be used to inform treatment strategies, such as the use of biomarkers and behavioral indices that predict illness and treatment response.

Prerequisite(s): HLTH 3201 or permission of the instructor. 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. 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 or BIOL 2303 and (HLTH 1000 or HLTH 1001).

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 permission of the instructor. Lecture three hours a week.

HLTH 4303 [0.5 credit] Pharmacotherapeutics

The pharmaceutical system. Topics include drug discovery and development, clinical trials, pharmacology and pharmacokinetics, natural products and traditional medicines and policy aspects, including patent and generic drugs, the cost of drugs and impact on local and global access.

Prerequisite(s): HLTH 3303 or permission of the instructor. Lecture and seminar three hours a week.

HLTH 4401 [0.5 credit]

Maternal and Prenatal Determinants of Health

The influence of prenatal events on illnesses. Stressful events, viruses, and toxins encountered during pregnancy; interactions between pre- and postnatal events; economic and psychosocial influences related to maternal care. Prerequisite(s): HLTH 2002 and HLTH 2003, and at least third-year standing in the B.H.Sc. program or permission of the instructor.

Lecture three hours a week.

HLTH 4402 [0.5 credit]

Psychosocial and Biological Mechanisms of Health

The biological mechanisms that link psychosocial factors to health outcomes. Epigenetic and genetic alterations, neuroendocrine and inflammatory processes, and changes of brain structures and regulatory systems; implications for psychosocial interventions.

Prerequisite(s): HLTH 2003 and (HLTH 3302 or NEUR 2200) or permission of the instructor.

Lecture and seminar three hours a week.

HLTH 4501 [0.5 credit]

Chronic Illness and Disability

An interdisciplinary view of disabilities related to injury or disease processes including risk factors, the trajectory of such conditions, the burden of health attributable to them, and their global distribution. Strategies for early prevention and health promotion.

Prerequisite(s): HLTH 2003 and HLTH 3103. 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.

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 or group study, open to third- and fourth-year students to explore a particular topic, in consultation with a Faculty supervisor. May include directed reading, written assignments, tutorials, laboratory or field work.

Prerequisite(s): At least third year standing in the BHSc.

Prerequisite(s): At least third-year standing in the BHSc program or permission of the instructor.

HLTH 4906 [1.0 credit]

Capstone course - Research Essay

A substantial, independent essay or research proposal based critical review and research proposal, using library, database and/or bioinformatic resources, under supervision of the instructor. Topics include identification and critical review of resources, development of writing skills and formulation of research question and strategy. Precludes additional credit for HLTH 4907, HLTH 4908 or HLTH 4909.

Prerequisite(s): fourth-year standing in the BHSc (Honours) in Health Science and permission of the Department of Health Sciences.

Lectures and discussion as scheduled by the course instructor.

HLTH 4907 [1.0 credit]

Capstone Course - Group Research Project

Collaborate on a project that addresses a real-world health concern in a team environment, similar to the workplace. Focus includes design and completion of a research project, development of communication and research skills and the opportunity to develop initiative, creativity and self-reliance.

Precludes additional credit for HLTH 4906, HLTH 4908 or HLTH 4909.

Prerequisite(s): fourth-year standing in the BHSc (Honours) in Health Science, 3rd year Honours emerging issues course in one of the BHSc concentrations (HLTH 3901, HLTH 3902, HLTH 3903, HLTH 3904 or HLTH 3905), major CGPA of at least 9.0 and permission of the Department of Health Sciences. Permission will depend, in part on capacity, such that meeting the minimum requirements does not guarantee enrollment in this capstone course.

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

HLTH 4908 [1.0 credit]

Capstone Course – Individual Research Project

An independent research project under the direct supervision of a faculty adviser, typically from the Department of Health Sciences. Evaluation is based on a written thesis and a poster presentation.

Precludes additional credit for HLTH 4906, HLTH 4907 or HLTH 4909.

Prerequisite(s): fourth-year standing in the BHSc (Honours) in Health Science, 3rd year Honours emerging issues course in one of the BHSc concentrations (HLTH 3901, HLTH 3902, HLTH 3903, HLTH 3904 or HLTH 3905), major CGPA of at least 9.0 and permission of the Department of Health Sciences. Permission will depend, in part on capacity, such that meeting the minimum requirements does not guarantee enrollment in this capstone course.

Lectures and discussion as scheduled by the course instructor; other hours as arranged with the Faculty Adviser.

HLTH 4909 [1.0 credit]

Capstone Course – Field Placement

An opportunity to apply learned principles and to gain relevant practical experience in a supervised health setting. Possible placements vary from year to year, and may be in a hospital, community-based health centre, government research lab, or with an international NGO. Precludes additional credit for HLTH 4906, HLTH 4907 or HLTH 4908.

Prerequisite(s): fourth-year standing in the BHSc (Honours) in Health Science, third-year Honours emerging issues in one of the BHSc concentrations (HLTH 3901, HLTH 3902, HLTH 3903, HLTH 3904 or HLTH 3905), major CGPA of at least 9.0 and permission of the Department of Health Sciences. Permission will depend, in part on capacity, such that meeting the minimum requirements does not guarantee enrollment in this capstone course.

Seminars three hours a week as scheduled by the course instructor; other hours as arranged with the Faculty Adviser; field placement hours will vary dependent on placement.