HEALTH SCIENCES, B.H.SC.

Degree Requirements

The Bachelor of Health Sciences (B.H.Sc.) degree is a four year interdisciplinary program that incorporates science, humanities and social science to provide students with an integrative perspective on health. The BHSc provides students with an interdisciplinary background and skill set that will contribute to their preparation for a future in health-related careers. This interdisciplinary skill set is seen as advantageous for students applying for education in professional health programs and graduate studies.

The Bachelor of Health Sciences (B.H.Sc.) Degree consists of 120 credit hours.

Students should consult the Academic Calendar to ensure that they have the appropriate pre- or co-requisites before they attempt to register in a course. A number of courses are cross-listed between departments/ faculties. Students are strongly encouraged to seek the advice of the Academic Advisor in the Interdisciplinary Health Program in order to plan their programs.

Hours

Title

Course

Year 1	ritte	Hours	
BIOL 1410	Anatomy of the Human Body	3	
CHEM 1100	Introductory Chemistry 1: Atomic and	3	
	Molecular Structure and Energetics ²		
CHEM 1110	Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties ²	3	
CHEM 1120	Introduction to Chemistry Techniques ²	3	
HEAL 1500	Foundations of Human Biology 1 ³	3	
HEAL 1502	Foundations of Human Biology 2 ³	3	
INDG 1220 or INDG 1240	Indigenous Peoples in Canada, Part 1 or Indigenous Peoples in Canada, Part 2	3	
PSYC 1200 or SOC 1000	Introduction to Psychology or Introduction to Sociology	6	
STAT 1000	Basic Statistical Analysis 1	3	
3 credit hours of Free	electives if SOC 1000 is taken		
	Hours	30	
Year 2			
BGEN 2000	Medical Cell Biology	3	
CHEM 2730	Elements of Biochemistry 1	3	
CHEM 2740	Introduction to the Biochemistry Laboratory	3	
HEAL 2600	Integration of Health Determinants of Individuals	3	
HNSC 1210	Nutrition for Health and Changing Lifestyles	3	
HNSC 2000 or PSYC 2250	Research Methods and Presentation ⁴ or Introduction to Psychological Research	3	
IMMU 2000	Fundamentals in Immunology	3	
PHGY 1030	Fundamentals of Medical Physiology	6	
3 credit hours of Free Electives			
	Hours	30	

	Total Hours	120	
	Hours	30	
6 credit hours of Free Electives			
6 credit hours of Prog	gram Electives ⁷	6	
PHAC 4040	Drugs in Human Disease II	3	
PHAC 4030	Drugs in Human Disease I	3	
HEAL 4630	Mechanisms of Disease 2	3	
HEAL 4620	Health Sciences Capstone	3	
HEAL 4600	Integration of Health Determinants for Canada and the World	3	
ANAT 4010	Human Embryology	3	
Year 4	Hours	30	
3 credit hours of Prog	gram Electives ⁷	3	
3 credit hours of Free		3	
PHIL 2740	Ethics and Biomedicine ⁶	3	
PHAC 3000	Foundations of Pharmacology	3	
HEAL 3610	Mechanisms of Disease 1	3	
HEAL 3600	Integration of Health Determinants for Communities	3	
HEAL 3000	Introduction to Social Epidemiology	3	
FMLY 3780 or FMLY 3790	Introduction to the Development of Programs for Children and Families or Introduction to the Evaluation of Programs for Children and Families	3	
FMLY 3750	Fundamentals of Health Promotion	3	
BGEN 3010	Genetics in Biomedicine ⁵	3	
Year 3			

- Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart.
- The former CHEM 1300 and the former CHEM 1310 may be used as course equivalents if completed prior to September 2021.
- BIOL 1020 and BIOL 1030 may be used as course equivalents if completed prior to September 2021.
- Students are advised that they must complete 3 credit hours from the Written English list within their first 60 credit hours, if they do not plan to take HNSC 2000.
- Students interested in applying to the MSc in Genetic Counselling must take BGEN 3022 and BGEN 3024 instead of BGEN 3010.
- PHIL 2290 (6) may be used in place of PHIL 2740 and will also satisfy the requirement of 3 credit hours of Free Electives.
- Of the 9 credit hours of program electives, 6 credit hours must be selected from the science elective list. HEAL 4650 can be completed a maximum of two times.

Bachelor of Health Sciences Program Electives List

Please note, a course completed as a core requirement may not also be used as an elective.

SCIENCE ELECT			INDG 3330	Indigenous People, Science and the Environment	3
Faculty of Agric	cultural and Food Sciences		PSYC 2250	Introduction to Psychological Research	3
Course	Title	Hours	PSYC 2260	Introduction to Research Methods in Psychology	3
AGRI 2180	Introductory Toxicology	3	PSYC 2290	Child Development	3
FOOD 4150	Food Microbiology 1	3	PSYC 2360	Brain and Behaviour	3
HNSC 2130	Nutrition Through the Life Cycle	3	PSYC 2440	Behaviour Modification Principles	3
CLAVTON H. BID	DELL FACULTY OF ENVIRONMENT EARTH AND		PSYC 2490	Abnormal Psychology	3
RESOURCES	DELETAGOLIT OF ENVIRONMENT LANTITAND		PSYC 3070	Adult Development	3
			PSYC 3130	Introduction to Health Psychology	3
Course	Title	Hours	PSYC 3150	Behaviour Modification Applications	3
ENVR 2180	Introductory Toxicology	3	PSYC 3310	Adolescent Development	3
MAX RADY COLLEGE OF MEDICINE			SOC 1000	Introduction to Sociology	3
			SOC 2330	Social Psychology in Sociological Perspective	3
Course	Title	Hours	SOC 2390	Social Organization	3
BGEN 3022	Introduction to Human Genetics A	3	SOC 2460	The Family	3
BGEN 3024	Introduction to Human Genetics B	3	SOC 2490	Sociology of Health and Illness	3
FACULTY OF SCI	ENCE		SOC 2620	The Sociology of Aging	3
17100211 01 001			SOC 3540	The Sociology of Health Care Systems	3
Course	Title	Hours	SOC 3660	Sociology of Mental Disorder	3
BIOL 2380	Introductory Toxicology	3	SOC 3770	Women, Health and Medicine	3
BIOL 3290	Medicinal and Hallucinogenic Plants	3	- 1- 4-4		
CHEM 2100	Organic Chemistry 1: Foundations of Organic	3		siology and Recreation Management	
	Chemistry		Course		lours
CHEM 2110	Organic Chemistry 2: Foundations of Organic	3	KIN 2610	Health and Physical Aspects of Aging	3
	Synthesis		KPER 1200	Physical Activity, Health and Wellness	3
CHEM 2122	Experimental Organic Chemistry	3	REC 2650	The Social Aspects of Aging	3
CHEM 2750	Elements of Biochemistry 2	3	Rady Faculty of	Health Sciences	
MATH 1230	Differential Calculus	3	Course		lours
MATH 1500	Introduction to Calculus	3	HEAL 1600	Health and Health Professions	3
MBIO 1220	Essentials of Microbiology	3	HEAL 4640	Mechanisms of Disease 3	6
MBIO 2420	Introductory Virology	3	HEAL 4650	Research Project in Interdisciplinary Health	3
MBIO 2750	Elements of Biochemistry 2	3	Oallana of None	•	
PHYS 1020	General Physics 1	3	College of Nurs		
PHYS 1030	General Physics 2	3	Course		lours
PHYS 1050	Physics 1: Mechanics	3	NURS 2610	Health and Physical Aspects of Aging	3
PHYS 1070	Physics 2: Waves and Modern Physics	3	NURS 3330	Women and Health	3
STAT 2000	Basic Statistical Analysis 2	3	NURS 3400	Men's Health: Concerns, Issues and Myths	3
STAT 3000	Applied Linear Statistical Models	3	NURS 4520	Professional Foundations 5: Interprofessional and Collaborative Practice	1 3
SOCIAL SCIENC	CE ELECTIVES			Conaborative i ractice	
Faculty of Arts			Max Rady Colle	ge of Medicine	
Course	Title	Hours	Course	Title H	lours
ECON 1010	Introduction to Microeconomic Principles	3	FMLY 1000	Families in Contemporary Canadian Society	3
ECON 1210	Introduction to Canadian Economic Issues and	3	FMLY 1010	Human Development in the Family	3
	Policies		FMLY 1012	Introduction to Social Development	3
ECON 3690	Economic Issues of Health Policy	3	FMLY 1420	Family Management Principles	3
ECON 3692	Economic Determinants of Health	3	FMLY 2012	Development, Conflict, and Displacement	3
INDG 1220	Indigenous Peoples in Canada, Part 1	3	FMLY 2400	Family Financial Health	3
INDG 1240	Indigenous Peoples in Canada, Part 2	3	FMLY 2500	Diversity and Families	3
INDG 2020	The Métis in Canada	3	FMLY 2600	Foundations of Childhood Developmental Health	3
INDG 2110	Introduction to Indigenous Community	3	FMLY 2650	The Social Aspects of Aging	3

FMLY 2800

FMLY 3012

3

3

Family Violence

Theories of Social Development

3

3

INDG 3100

INDG 3240

Development

Indigenous Healing Ways

Indigenous Medicine and Health

FMLY 3220	Death and the Family	3
FMLY 3240	Families in Later Years	3
FMLY 3330	Parenting and Developmental Health	3
FMLY 3400	Families as Consumers	3
FMLY 3470	Selected Studies in the Family I	3
FMLY 3600	Adolescents in Families and Society	3
FMLY 3780	Introduction to the Development of Programs for Children and Families	3
FMLY 3790	Introduction to the Evaluation of Programs for Children and Families	3
FMLY 3800	Conflict Resolution in the Family	3
FMLY 3802	Intimate Partner Violence	3
FMLY 3806	Children, Violence and Rights	3
FMLY 4012	Social Development Policies	3
FMLY 4220	Aging and Risk in a Global Context	3
FMLY 4300	Field Experience	6
FMLY 4330	Management of Family Stress	3
FMLY 4400	Family Economics: Poverty and Wealth	3
FMLY 4470	Selected Studies in the Family II	3
FMLY 4480	Work and Family Issues	3
FMLY 4602	Family Relationships, Health and Well-being	3
FMLY 4604	Children in Adversity	3
FMLY 4606	A Social Justice Perspective on Indigenous Maternal and Child Health	3
FMLY 4802	Family Violence Prevention	3

Faculty of Social Work

Course	Title	Hours
SWRK 1310	Introduction to Social Welfare Policy Analysis	3
SWRK 2650	The Social Aspects of Aging	3