

PUBLIC HEALTH SCIENCES B.S.

All students must meet the Degree and University Requirements.

All students must meet the Catamount Core Curriculum Requirements.

All students must meet the College Requirements.

The mission of the UVM Public Health Sciences program is to strive for health equity by preparing the next generation of leaders to improve the health of individuals and communities through basic science and applying the principles of population health. Students in this major learn how to define, assess, and address health issues facing individuals and communities. The program is public health focused, and includes: health promotion and education, global health, epidemiology, health communication, and understanding the US health care systems.

Students in Biomedical and Health Sciences (BHSC) programs must maintain a cumulative grade point average of 2.3 or higher. Students with a cumulative grade point average below 2.3 will be placed on academic trial. First-year students must achieve a cumulative GPA of 2.3 or higher by the end of two subsequent semesters to be removed from trial. Students who fail to raise their cumulative GPA to 2.3 after the trial semesters may be discontinued from the program. Students beyond the first year must achieve a cumulative GPA of 2.3 or higher by the end of the subsequent semester to be removed from trial. Students who fail to raise their cumulative GPA to 2.3 after the trial semester may be discontinued from the program. Students who earn one grade below a C in any non-practicum, non-internship, professional /core course will be placed on academic trial. Professional or core courses are identified on each major curriculum sheet. Students should consult with their advisor to ensure that they are consistently progressing in the program curriculum.

The UVM Public Health Sciences program (B.S.) is the only undergraduate program at UVM to be nationally accredited by the Council on Education for Public Health.

PUBLIC HEALTH SCIENCES CORE COURSES (36 CREDITS)

Must take all courses. HSCI 1100 is a prerequisite for all 1000-level courses. BHSC 1340 (or equivalent, see footnote below) is a required course that also counts towards Natural and Applied Science Electives and is suggested in the first year (4 credits). One semester of chemistry (4 credits) is also recommended.

HSCI 1100	Introduction to Public Health (SS) ¹	3
BHSC 1340	Human Cell Biology (NS1) ²	4
HSCI 2200	Rsrch Methods in Public Health (SU, prereq HSCI 1100)	3
HSCI 2100	Fndns of Global Health (D2, GC)	3

STAT 1110	Elements of Statistics	3
or STAT 1410	Basic Statistical Methods 1	
NH 2200	Health Care Ethics	3
HSCI 2300	Health Promotion (SS, prereq HSCI 1100)	3
HSCI 2400	Hlthcare & Pub Hlth Syst US	3
HSCI 2500	Health Communication (prereq ENGL 1001 or equivalent)	3
HSCI 3100	Epi, Pub Hlth & Emerg Disease (prereq: HSCI 2200)	3
HSCI 3300	Hlth Promotion Prog Plan/Eval (prereq HSCI 2300, senior standing)	3
HSCI 3400	Writing for Health Profess. (prereq HSCI 2500)	3
HSCI 3500	Capstone (HSCI 3400 can be taken simultaneously; prereq all HSCI core courses) ³	3

ENGLISH (6 CREDITS)

ENGL 1001	Written Expression (W1)	3
HSCI 1980	Writing for Health and Equity (W2, D1)	3

HUMANITIES (6 CREDITS)

Must complete 6 credits of electives with AH designation.

MATH OR STATISTICS (6 CREDITS)

Must complete 6 credits in addition to either STAT 1110 or STAT 1410. Students can take both STAT 1110 and STAT 1410 if desired.

Math (MA)		
Course with QD, MA designation OR PH 3060 (Biostats)		

SOCIAL AND BEHAVIORAL SCIENCES (12 CREDITS)

Must be from at least 2 different disciplines. Select from the following OR any course with the SS designation:

ANTH (any)		
GEOG (any course except: 1200, 2205, 2230, 2250)		
POLS (any course except: 1200 and all courses within the 2330s and 2440s)		
GRS 1500	Intro to Global Studies	3
SOC 1375	Asian-American Experiences	3
PSYS (any course except: 1110, 1150, 2110, 2150, 2160, 2170, 2180, 2190)		
CSD 1940	Dev of Spoken Language	3

GSWS 1500	Intro to GSWS	3
SOC (any)		
EC (any)		
LING (any)		
PH 6060	Social&Behavioral Public Hlth	3
EDHE 2520	Race, Bullying & Discrim	3

NATURAL AND APPLIED SCIENCES (18 CREDITS)

One semester of chemistry (4 credits) is recommended. In addition to BHSC 1340, students must choose ONE additional course with NS designation OR select from the following:

BHSC 1340	Human Cell Biology (required; NS1) ²	4
ANTH 1400	Biological Anthropology	3
ANPS 1190	Ugr Hum Anatomy & Physiology 1 *	4
ANPS 1200	Ugr Hum Anatomy & Physiology 2 *	4
BIOL 1400	Principles of Biology 1	4
BIOL 1450	Principles of Biology 2	4
BCOR 1400	Exploring Biology 1	4
BCOR 1450	Exploring Biology 2	4
BCOR 2300	Genetics	3
BCOR 2500	Molecular & Cell Biology w/lab	4
BIOC 3001	Fundamentals of Biochemistry	3
BHSC 3420	Immunology *	3
BHSC 3810	Applied Molecular Biology *	3
CHEM 1100	Outline: General Chem w/lab	4
CHEM 1102	Outline: General Chem	3
CHEM 1150	Outline: Organic & BIOC w/lab	4
CHEM 1400	General Chemistry 1	4
CHEM 1450	General Chemistry 2	4
CHEM 1580	Intro Organic Chemistry w/lab	4
CHEM 2580	Organic Chemistry 1	4
CHEM 2585	Organic Chemistry 2	4
ENSC 1010	Intro Environmental Sci	3
PATH 2010	Intro to Human Disease *	3
PHYS 1400	Elementary Physics I	4

PHYS 1450	Elementary Physics II	4
PHYS 1410	Elem Physics Problem Solving I	1
PHYS 1460	Elem Physic Problem Solving II	1
PBIO 1040	Intro to Botany	4
PSYS 2200	Biopsychology	3
MMG 1650	Microbiology & Pathogenesis *	4
MMG 2010	Microbiol & Infectious Disease *	4
MMG 3220	Adv Medical Microbiology w/lab *	4
MMG 3230	Immunology	3
MLS 3100	Clinical Chemistry I *	3 or 4
MLS 3110	Clinical Chemistry II *	3
MLS 3200	Hematology *	3
MLS 3300	Clinical Microbiology II *	3
MLS 3892	Public Health Lab Practicum *	12
PHRM 3010	Pharmacology and Therapeutics *	3
PHRM 5400	Molecules & Medicine *	3
PHRM 3720	Toxicology *	3
PHRM 3993	Independent Study *	1-18
NFS 2143	Nutrition in the Life Cycle *	3
NFS 2153	Principles of Food Technology *	3
NFS 2154	Principles Food Technology Lab *	1
NFS 2183	Introduction to Biochemistry *	3
NFS 3203	Food Microbiology *	3
NFS 3204	Food Microbiology Lab *	1

HEALTH-RELATED ELECTIVES (18 CREDITS)

Must select at least 6 credits at 2000-level. Select from the following:

ANPS 1190	Ugr Hum Anatomy & Physiology 1	4
ANPS 1200	Ugr Hum Anatomy & Physiology 2	4
ANTH 1190	Global Health Devel & Diversit	3
ANTH 2205	Gender Sex Race & the Body	3
ANTH 2170	Culture, Health and Healing	3
BCOR 2300	Genetics	3
BCOR 2500	Molecular & Cell Biology w/lab	4
BHSC 2970	Leadership & Mgt in Hlth Care	3

CDAE 1020	World Food,Pop & Develop	3
CSD 1200	Intro to Disordered Comm	3
CSD 1940	Dev of Spoken Language	3
CSD 2210	Adv Topics in Clin Aud & SLP	3
CSD 3200	Culture of Disability	3
CSD 3480	Cognition & Language	3
CSD 3810	Intro Cognitive Neuroscience	3
CSD 3899	Autism Spect Dis:Assess&Interv	3
COMU (any)		
ECON 4200	Topics in:Micro&Applctns (W)	3
EDHE 2460	Personal Health	3
EDPE 2660	Kinesiology	3
EDPE 3000	Contemporary Issues	1-6
EDSP 1050	Iss Aff Persons W/Disabil	3
ENVS 4990	Special Topics	1-18
EXSC 2750	Applied Kinesiology	3
EXSC 3130	Biomechanics of Human Movement	3
EXSC 2420	Exercise and Sport Psychology	3
HDF 1050	Human Development	3
HLTH (any)		
HSCI (any non-core)		
MMG 1020	Unseen Wrlds:Microbes & You	3
MMG 1650	Microbiology & Pathogenesis	4
MMG 2010	Microbiol & Infectious Disease	4
NFS (any)		
NURS 3000	Health and Sustainability	3
PEAC 1006	Yoga & Mindfulness	1
PEAC 1100	Yoga & the Chakras	1
PH (any)		
PHRM 3000	Medical Cannabis	3
PHRM 3010	Pharmacology and Therapeutics	3
PHRM 5400	Molecules & Medicine	3
PHRM 3720	Toxicology	3
PHRM 3993	Independent Study	1-18
PSYS 3520	Fit Kids: Special Populations	3

PSYS 3455	Adv Fit Kids: Applied Research	3
PSYS 3990	Special Topics	1-18
PSYS 3510	Intro to Health Psychology (may also count as social and behavioral elective)	3
EXSC 1650	Foundations Ex & Hlth Act Pop	3
SOC 1300	Health Care in America (may also count as social and behavioral elective)	3
SOC 2450	Population, Environment & Soc (may also count as social and behavioral electives)	3
SOC 2300	Population Health Research (may also count as social and behavioral electives)	3
SOC 3335	Sociology of Reproduction (may also count as social and behavioral electives)	3
SOC 4990	Special Topics (may also count as social and behavioral electives)	1-18
EMED 3000	Emergency Medicine Research I	4
or EMED 3010	Emergency Medicine Research II	
Health-related travel courses		
ASCI 2700	Wildlife Hlth & Consvration	3
BCOR 1400	Exploring Biology 1	4
BCOR 1450	Exploring Biology 2	4
BCOR 2505	Molecular & Cell Biology	3
PSYS 2400	Developmental Psych: Childhood	3
PSYS 3525	Adv Fit Kids: Spec Populations	3
PSYS 3450	Fit Kids Applied Research	0 or 3
PSYS 3515	Science of Traumatic Stress	3
SOC 2335	Gender, Sexualities & Medicine	3
SOC 1260	Drugs & Society	3
STAT 3000	Med Biostat&Epidemiology	3

LEARNING COMMUNITY REQUIREMENTS (1-3 CREDITS)

Assigned by university.

UNIVERSITY REQUIREMENTS

Catamount Core

Students must select 6 credits of AH and 3 credits of MA; ENGL 1001 fulfills W1. BHSC 1340 fulfills NS 1, students must select a NS 2. The following core courses meet the remaining Catamount Core requirements: HSCI 2100 fulfills D2 and GC (3 credits). HSCI 2200 fulfills SU 3 credits. STAT 1110 or STAT 1410

fulfills QD 3 credits. HSCI 1100 and HSCI 2300 fulfill SS 6 credits. HSCI 1980 fulfills W2 and D1.

FREE ELECTIVES (12-14 CREDITS)

The number of free elective requirements needed may vary by student.

Students must complete a minimum of 120 credits for the B.S. in Public Health Sciences. Course selection should be reviewed by a student's academic advisor.

- * Courses may also count as health-related electives.
- ¹ Core course; HSCI 1100 is a prerequisite for all HSCI core courses. Other than HSCI 3400, all core courses must be completed prior to Capstone. Be mindful of prerequisites.
- ² BHSC 1340 (or equivalent) is a required course that also counts towards Natural and Applied Science Electives and is suggested in the first year. Students must take either BHSC 1340 (4 credits) OR one of BIOL 1400 OR BCOR 1400 AND One of MMG 1020 OR MMG 2010 OR PATH 2010 (8 credits).
- ³ HSCI 3500 is a project based, service-learning course with hours at a community partner site completed outside of class time.

PLAN OF STUDY

A Model 4-Year public Health Sciences Curriculum

First Year	Credits	
	Fall	Spring
NH 1500 App to Hlth: From Pers to Syst	1	
HSCI 1100 Introduction to Public Health (SS)	3	
Social and Behavioral Science Elective	3	3
BHSC 1340 Human Cell Biology (NS1) ¹	4	
ENGL 1001 Written Expression (W1)	3	
Learning Community Course	1-3	
Approved Health-Related Elective		3
Math/STAT Elective		3
Natural and Applied Science Elective (N)		
HSCI 2200 Rsrch Methods in Public Health (SU)		3
Year Total:	15-17	12
Sophomore		
	Fall	Spring
HSCI 2100 Fndns of Global Health (D2, GC1)	3	
STAT 1110 Elements of Statistics (QD) or STAT 1410 Basic Statistical Methods 1	3	

Approved Health-Related Elective	4	3
HSCI 1980 Writing for Health and Equity (W2, D1)	3	
Math (MA)	3	
HSCI 2300 Health Promotion (SS)		3
HSCI 2400 Hlthcare & Pub Hlth Syst US		3
Natural and Applied Science Elective		3
Social and Behavioral Science Elective		3
Year Total:	16	15

Junior	Credits	
	Fall	Spring
HSCI 3100 Epi, Pub Hlth & Emerg Disease	3	
NH 2200 Health Care Ethics	3	
Natural and Applied Science Elective	3	3
Humanities Elective (AH)	3	3
Free Elective	3	3
HSCI 2500 Health Communication		3
Approved Health-Related Elective		3
Year Total:	15	15

Senior	Credits	
	Fall	Spring
HSCI 3300 Hlth Promotion Prog Plan/Eval	3	
Social and Behavioral Science Elective	3	
Approved Health-Related Elective	3	3
Free Elective	3-6	3-6
MA course		3
Natural and Applied Science Elective (N2)		
HSCI 3500 Capstone		3
HSCI 3400 Writing for Health Profess.		3
Year Total:	12-15	15-18
Total Credits in Sequence: 115-123		

¹ BHSC 1340 is a required course that also counts towards Natural and Applied Science Electives and is recommended in the first

year (4 credits); one semester of chemistry (4 credits) is also recommended.

Total Requirements: Minimum of 120 semester credit hours: 40 credits in core courses in the major, 18 credits in approved health-related courses, 14 credits in natural sciences, 12 credits in social sciences, 6 credits in MA and MA/QD/PH (excluding STAT 1110 or STAT 1410), 6 credits in English (including ENGL 1001), 6 credits in AH, and approximately 15-18 credits in free electives. Course selection should be reviewed by a student's academic advisor.

Transfer student 2-year curriculum (fall start*)

First Year	Credits	
	Fall	Spring
NH 2200 Health Care Ethics	3	
HSCI 1100 Introduction to Public Health (SS)	3	
STAT 1110 Elements of Statistics (QD) or STAT 1410 Basic Statistical Methods 1	3	
Life and Physical Science Elective (BHSC 1340)(NS1)	4	
HSCI 1980 Writing for Health and Equity (D1, W2)	3	
HSCI 2200 Rsrch Methods in Public Health		3
HSCI 2300 Health Promotion (SS)		3
HSCI 2400 Hlthcare & Pub Hlth Syst US		3
HSCI 2500 Health Communication (AH, NS)		3
Electives (D1)		3-6
Year Total:	16	15-18
Second Year		
	Credits	
	Fall	Spring
HSCI 2100 Fndns of Global Health (GC, D2)	3	
HSCI 3100 Epi, Pub Hlth & Emerg Disease	3	
HSCI 3300 Hlth Promotion Prog Plan/Eval	3	
Electives (MA, QD and other)	3-6	9-12
HSCI 3400 Writing for Health Profess.		3
HSCI 3500 Capstone		3
Year Total:	12-15	15-18
Total Credits in Sequence:		
		58-67

**TRANSFER student 2-year curriculum (summer start*)
SUMMER**

HSCI 1100 (online)

First Year	Credits	
	Fall	Spring
NH 2200 Health Care Ethics	3	
HSCI 2100 Fndns of Global Health	3	
STAT 1110 Elements of Statistics or STAT 1410 Basic Statistical Methods 1	3	
HSCI 2200 Rsrch Methods in Public Health	3	
HSCI 1980 Writing for Health and Equity	3-6	
HSCI 2300 Health Promotion		3
HSCI 2400 Hlthcare & Pub Hlth Syst US		3
HSCI 2500 Health Communication		3
Life and Physical Science Elective (BHSC 1340)		4
Electives (AH, NS2)		6-9
Year Total:	15-18	19-22
Second Year		
	Credits	
	Fall	Spring
HSCI 3100 Epi, Pub Hlth & Emerg Disease	3	
HSCI 3300 Hlth Promotion Prog Plan/Eval	3	
Electives (MA, QD and other)	6-9	9-12
HSCI 3400 Writing for Health Profess.		3
HSCI 3500 Capstone		3
Year Total:	12-15	15-18
Total Credits in Sequence:		
		61-73

* Transfer students must ensure that they are meeting all Catamount Core requirements that are not covered in the HSCI core curriculum.

Minimum of 120 semester credit hours and final GPA of 2.3 or higher required for the major. Minimum 120 semester credit hours: 40 credits in core courses in the major; 18 credits in approved health-related courses; 14 credits in natural sciences; 12 credits in social sciences; 6 credits in MA and MA/QD/PH (excluding STAT 1110 and STAT 1410); 6 credits in English (including ENGL 1001); 6 credits in AH; and approximately 15-18 credits in

free electives. Course selection should be reviewed by a student's academic advisor.