

Health Science, BS (Oakland)

The health science major offers students a solid academic and experiential foundation that positions them well to pursue graduate and professional school training in the following programs:

- Medicine
- Dentistry
- Veterinary medicine
- Public health
- Physician assistant studies
- Nurse practitioner
- Pharmacy
- Physical therapy
- Social work
- Speech-language pathology

In addition to the required courses for the Bachelor of Science in Health Science, students who are interested in clinical graduate school programs can utilize available elective slots to complete prerequisite courses. The Northeastern PreMed and PreHealth Advising Program (<https://undergraduate.northeastern.edu/prehealth/academics-2/coursework/>) provides individualized advising resources to Northeastern undergraduate students and alumni considering careers in the areas of allopathic medicine (MD), osteopathic medicine (DO), dentistry, optometry, physician assistant, podiatric medicine, or veterinary medicine. Please visit the BS Health Science webpage (<https://bouve.northeastern.edu/health-sciences/programs/bs/>) to learn more about premed and prehealth pathways.

The health science major is also designed for students who are seeking a strong foundation for a career in health administration and in community-based health promotion and public health.

Please visit Bouvé College Learning Outcomes (<https://bouve.northeastern.edu/learning-outcomes/>) for the specific student learning outcomes for this program.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

Universitywide Requirements

All undergraduate students are required to complete the Universitywide Requirements (<https://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements/>).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (<https://catalog.northeastern.edu/undergraduate/university-academics/nupath/>).

Public Health Core

Code	Title	Hours
PHTH 1260 or PHTH 1261	The American Healthcare System Comparative Healthcare Systems	4
PHTH 2210	Foundations of Biostatistics	4
PHTH 2300 or PHTH 2301	Communication Skills for the Health Professions Communication Skills for the Health Professions—Global	4
PHTH 2350 or PHTH 2351	Community and Public Health Community and Public Health - Global	4
PHTH 2515	Healthcare Policy and Administration	4
PHTH 4120	Global Perspectives on Discrimination and Health	4
PHTH 4202	Principles of Epidemiology in Medicine and Public Health	4
PHTH 4540	Health Education and Program Planning	4

Science Requirement

Code	Title	Hours
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for Science Majors and Lab for CHEM 1161 and Recitation for CHEM 1161	5
MATH 1241	Calculus 1	4
PSYC 1101	Foundations of Psychology	4

Selectives

Code	Title	Hours
Complete at least three courses from the groups listed below with at least two in one category. At least one of the courses must be at the 2000 level or higher. Students may complete additional courses to fulfill a minor, such as global health, nutrition, and exercise science.		9-13

Society and Health

ANTH 3441	Medical Anthropology
CRIM 3040	Psychology of Crime
HLTH 5280	The (in)Visibility of (dis)Ability in Society
INMI 2820	Climate Change, Health, and Resilience
INSH 1300	Introduction to Health and Humanities
PHTH 1270 or AFCS 1270	Introduction to Global Health Introduction to Global Health
PHTH 2414	Environmental Health
PHTH 2616	Rural Health: An Interdisciplinary Seminar
PHTH 5222	Health Advocacy
PHTH 5234	Economic Perspectives on Health Policy
SOCL 1245	Sociology of Poverty
SOCL 1246	Environment and Society
SOCL 1260	Sociology of Gender
SOCL 1295	Drugs and Society
SOCL 2303	Gender and Reproductive Justice
SOCL 2485	Environment, Technology, and Society
SOCL 3441	Sociology of Health and Illness
SOCL 4522	Environmental Justice
WMNS 1225	Gender, Race, and Medicine

Policy and Administration

ECON 1230	Healthcare and Medical Economics
ECON 3404	International Food Policy
HUSV 2800	Sexual Orientation and Gender Expression
HUSV 3900	Social Policy
INMI 1877	Race, Public Health, and Storytelling
INNO 2206	Global Social Enterprise
LPSC 2301	Introduction to Law, Policy, and Society
MGMT 3340	Healthcare Management, Innovation, and Design
ORGB 3201	Organizational Behavior
PHTH 4511	Healthcare Management
PHTH 5232	Evaluating Healthcare Quality
PHTH 5234	Economic Perspectives on Health Policy
POLS 2395	Environmental Politics and Policy
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
SOCL 3241	Violence and Society

Nutrition and Wellness

CAEP 1280	Introduction to Mindfulness
CAEP 1290	Personal Behavior Change
CAEP 2012	Health Psychology: An Introduction
CAEP 2101	Behavioral Assessment and Treatment of Health Problems in the 21st Century
COMM 2555	Games for Change
COMM 3201	Health Communication
EXSC 1120	Introduction to Exercise, Fitness, and Health
EXSC 4500	Exercise Physiology 1
EXSC 5200	Cardiopulmonary Physiology
EXSC 5220	Advanced Exercise Physiology
HSCI 1105	Human Nutrition
HSCI 1106	Contemporary Issues in Nutrition
HSCI 2350	Advanced Nutrition in Health and Disease
HSCI 2500	Public Health Nutrition in the Community
PSYC 1250	Drugs and Behavior
Digital Health	
CS 2000 and CS 2001	Introduction to Program Design and Implementation and Lab for CS 2000
CS 4350	Empirical Research Methods
DS 4200	Information Presentation and Visualization
HINF 5101	Introduction to Health Informatics and Health Information Systems
HINF 5200	Theoretical Foundations in Personal Health Informatics
HINF 5300	Personal Health Interface Design and Development
Health Data Science	
ANTH 3410	Ethnographic Field Experience
ARCH 5312	Mapping and Building Health
PHIL 3065	Bioethics in the Age of Big Data
PHTH 5202	Introduction to Epidemiology
POLS 2399	Research Methods in Political Science

Capstone Requirement

Code	Title	Hours
Complete one of the following:		3-4
HINF 5301	Evaluating Health Technologies	
HSCI 4720	Health Science Capstone—Service ¹	
HSCI 4730	Health Science Capstone—Research ¹	
HSCI 4970 and HSCI 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2 ²	
PHTH 4515	Critical Issues in Health and Public Health Policy	
PHTH 4602	Private Guns, Public Health	
PHTH 4616	Addressing Rural Health Inequities	
PHTH 4717	Advancing Health Justice Through the Law	
PHTH 5214	Environmental Health	
PHTH 5230	Global Health	
PHTH 5236	Food, Nutrition, and Health	
PHTH 5603	Qualitative Methods	

¹ Must complete 0 SH Health Science Capstone Introduction (HSCI 4700) as pre-requisite.

² Junior/Senior Honors Project 1 (HSCI 4970) will count as 4 SH general elective

Other Major Requirements

Code	Title	Hours
HSCI 1000	College: An Introduction	1
HSCI 2000	Professional Development for Bouvé Co-op	1

Code	Title	Hours
Complete remaining semester hours after major courses to reach minimum semester hour program requirement.		

A grade of C or higher is required for the Public Health Core, Science Requirement, and Capstone. Students who take College: An Introduction (HSCI 1000) and Professional Development for Bouvé Co-op (HSCI 2000) must achieve a C or higher.

Please visit Bouvé College of Health Sciences Undergraduate page (<https://catalog.northeastern.edu/undergraduate/health-sciences/>) for academic policies and procedures, including Academic Appeals (<https://catalog.northeastern.edu/undergraduate/academic-policies-procedures/academic-appeals-policies-procedures/>).

128 total semester hours required

Sample Plans of Study

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSCI 1000		1 PSYC 1101		4 General Elective		4 Vacation	
PHTH 1260		4 General Elective		4 PHTH core course		4	
MATH 1241		4 BIOL 1113 and BIOL 1114		5			
BIOL 1111 and BIOL 1112		5 CHEM 1161 and CHEM 1162 and CHEM 1163		5			
ENGW 1111		4					
		18		18		8	0
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHTH core course		4 HSCI 2000		1 General Elective		4 Co-op	0
General Electives		8 PHTH 2210		4 PHTH core course		4	
PHIL 1165		4 General Electives		12			
		16		17		8	0
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		0 ENGW 3306		4 Selective		3-4 Co-op	0
Selective		3-4 General Elective		4 PHTH core course		4	
		Selective		3-4			
		PHTH core course		4			
		3-4		15-16		7-8	0
Year 4							
Fall	Hours	Spring	Hours				
Co-op		0 Capstone course		3-4			
General Elective		4 PHTH core course		4			
		General Electives		8			
		4		15-16			

Total Hours: 129-133

FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER FIRST HALF**Year 1**

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSCI 1000		1 BIOL 1113		4 PTH core course		4 Vacation	
PTH 1260		4 BIOL 1114		1 General Elective		4	
PSYC 1101		4 MATH 1241		4			
BIOL 1111		4 General Elective		4			
BIOL 1112		1 CHEM 1161		4			
ENGW 1111		4 CHEM 1162		1			
		CHEM 1163		0			
	18		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSCI 2000		1 Co-op		0 Co-op		0 PHIL 1165	4
PTH 2210		4 General Elective		4		PTH core course	4
PTH core course		4					
General Electives		8					
	17		4		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3306		4 Co-op		0 Co-op		0 Selective	3-4
General Elective		4 General Elective		4		PTH core course	4
Selective		3-4					
PTH core course		4					
	15-16		4		0		7-8

Year 4

Fall	Hours	Spring	Hours
PTH core course		4 General Electives	16
General Elective		4	
Capstone course		3-4	
Selective		3-4	
	14-16		16

Total Hours: 129-133