THE DEPARTMENT OF HEALTH SCIENCES

www.northeastern.edu/bouve/programs/bhealthsci.html

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The Department of Health Sciences offers a BS degree program in health science and minors in exercise physiology and in health science.

Health Science
The rapidly changing health system is creating a demand for broadly educated graduates possessing a strong understanding of health, health care, and community-service-related issues. Individuals with these skills are needed by public and private agencies, public health services, hospitals and other nonprofit and for-profit companies, and health-related organizations. The health science major is a preprofessional program designed to provide students with the appropriate background and preparation for entry into graduate and professional programs such as: medicine, dentistry, veterinary medicine, public health, physician assistant, exercise physiology, and social work. The major is also designed for students who are seeking a general preparation for positions in health promotion, health administration, and community-based public health.

The health science curriculum is an integrated model that builds upon a foundation of the social sciences, natural sciences, and the liberal arts. All health science students have the option to complete the program with or without a co-op experience. Health science students complete an array of major courses that introduce them to the health-care system in the United States and provide them with the opportunity to develop an understanding of health policy and administration, health research, quality-of-care improvement and evidence-based health care. The curriculum includes a significant number of electives designed to enrich students’ intellectual lives. Students will have an opportunity to identify a specific area of interest and may use the electives to explore a declared focus or a formal minor that complements their health science studies. The entire academic experience is drawn together through a capstone project during the senior year. The capstone project is intended to provide students with a structured opportunity to broaden, deepen, and integrate the knowledge and skills acquired in prior courses and experiential activities.

Minor in Health Science
The minor in health science is designed for undergraduate students from any discipline across the University wishing to expand and apply their understanding in public-health-related areas. The minor comprises five courses (20 credits) selected from courses offered within the health sciences major. The selection of courses is done in consultation with the health science program faculty.

Minor in Exercise Physiology
This minor in exercise physiology is for undergraduate students from any discipline across the University wishing to expand their understanding of human physiology. Exercise physiology is a discipline that examines the short- and long-term responses to exercise and benefits of exercise training for healthy persons as well as persons with chronic diseases such as heart disease, pulmonary diseases, diabetes, obesity, etc. Undergraduate students from many disciplines could broaden their understanding of human physiology and the role of exercise in health promotion, disease prevention, and rehabilitation with a minor in exercise physiology. Students who elect a minor in exercise physiology may then apply to the MS in clinical exercise physiology upon graduation.

BS in Health Science
Note: Students pursuing premed track should consult advisor for additional guidance.

YEAR 1

American Health Care
Complete the following course
PHTH 1260 The American Health-Care System 4 SH

Freshman Seminar
Complete the following course
HSCI 1000 College: An Introduction 1 SH

General Biology 1 and 2
Complete the following two courses with corresponding labs:
BIOL 1111 General Biology 1 4 SH
with BIOL 1112 Lab for BIOL 1111 1 SH
BIOL 1113 General Biology 2 4 SH
with BIOL 1114 Lab for BIOL 1113 1 SH

Mathematics
Complete the following course:
MATH 1241 Calculus 1 4 SH

General Chemistry I
Complete one of the following courses with corresponding lab:
CHEM 1101 General Chemistry for Health Sciences 4 SH
with CHEM 1102 Lab for CHEM 1101 1 SH
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH
General Chemistry 2  
Complete one of the following courses with corresponding lab:  
CHEM 1104 Organic Chemistry for Health 4 SH  
with CHEM 1105 Lab for CHEM 1104 1 SH  
CHEM 1214 General Chemistry 2 4 SH  
with CHEM 1215 Lab for CHEM 1214 1 SH  

Foundations of Psychology  
Complete the following course:  
PSYC 1101 Foundations of Psychology 4 SH  

College Writing  
Complete the following course with a grade of C or higher:  
ENGL 1111 College Writing 4 SH  

YEAR 2  
Community and Public Health  
Complete the following course:  
PHTH 2350 Community and Public Health 4 SH  

Anatomy and Physiology 1 and 2  
Complete the following two courses with corresponding labs:  
BIOL 1117 Integrated Anatomy and Physiology 1 4 SH  
with BIOL 1118 Lab for BIOL 1117 1 SH  
BIOL 1119 Integrated Anatomy and Physiology 2 4 SH  
with BIOL 1120 Lab for BIOL 1119 1 SH  

Statistics and Software  
Complete the following course:  
MATH 2280 Statistics and Software 4 SH  

Nutrition  
Complete the following course:  
HSCI 1105 Nutrition 4 SH  

Professional Development for Co-op  
Complete the following course:  
HSCI 2000 Professional Development for Bouvé Co-op 1 SH  

Basic Clinical Skills  
Complete the following course with corresponding lab:  
HLTH 1200 Basic Skills for the Health-Care Professional 2 SH  
with HLTH 1201 Lab for HLTH 1200 1 SH  

Program Electives 1 and 2  
Complete two courses selected in consultation with your advisor as part of your declared track of study.  

YEAR 3 (4-YEAR OPTION)  
YEARS 3 AND 4 (5-YEAR CO-OP OPTION)  

Advanced Writing in the Health Professions  
Complete the following course with a grade of C or higher:  
ENGL 3306 Advanced Writing in the Health Professions 4 SH  

Communications for Health Professions  
Complete the following course:  
PHTH 2300 Communication Skills for the Health Professions 4 SH  

Health-Care Research  
Complete the following course:  
HLTH 3450 Health-Care Research 4 SH  

Moral Problems of Medicine  
Complete the following course:  
PHIL 1165 Moral and Social Problems in Health Care 4 SH  

Program Electives 3–6  
Complete four courses selected in consultation with your advisor as part of your declared track of study.  

FINAL YEAR  
Race, Ethnicity, and Health (Comparative Study of Cultures)  
Complete the following course (which satisfies the NU Core comparative study of cultures requirement):  
PHTH 5120 Race, Ethnicity, and Health in the United States 4 SH  

Health-Care Management  
Complete the following course:  
PHTH 4511 Health-Care Management 4 SH  

Health Policy  
Complete the following course:  
PHTH 4515 Health Policy: Public Health in Crisis 4 SH  

Health Education and Program Planning  
Complete the following course:  
PHTH 5540 Health Education and Program Planning 4 SH  

Health Science Capstone Project  
Complete the following course:  
HSCI 4710 Health Science Capstone 4 SH  

Electives  
Complete four general electives.  

HEALTH SCIENCE MAJOR GRADE REQUIREMENT  
A grade of C or higher is required in all health science courses.  

NU CORE REQUIREMENTS  
See page 26 for requirement list.  

GENERAL ELECTIVES  
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.  

COOPERATIVE EDUCATION  
If elected  

UNIVERSITY-WIDE REQUIREMENTS  
135 total semester hours required  
Minimum 2.000 GPA required  

BS in Health Science/MPH—Master of Public Health  
Undergraduate students apply to the combined program through the graduate school. Once admitted, students may count a limited amount of graduate credit toward the undergraduate degree. Consult the department for information on this program.
Minor in Health Science

**REQUIRED COURSES**
Complete five of the following courses:

- HLTH 3450 Health-Care Research 4 SH
- HSCI 1105 Nutrition 4 SH
- PHTH 1260 The American Health-Care System 4 SH
- PHTH 2300 Communication Skills for the Health Professions 4 SH
- PHTH 2350 Community and Public Health 4 SH
- PHTH 4511 Health-Care Management 4 SH
- PHTH 4515 Health Policy: Public Health in Crisis 4 SH
- PHTH 5120 Race, Ethnicity, and Health in the United States 4 SH
- PHTH 5540 Health Education and Program Planning 4 SH

**GPA REQUIREMENT**
2.000 GPA required in the minor

Minor in Exercise Physiology

A minimum grade of C is required in all courses taken toward the minor.

**REQUIRED COURSES**
Complete the following five courses with corresponding labs, as indicated:

- EXSC 4500 Exercise Physiology I 4 SH
- EXSC 4501 Lab for EXSC 4500 1 SH
- EXSC 4502 Exercise Testing and Prescription 4 SH
- EXSC 4504 Clinical Kinesiology 4 SH
- EXSC 6220 Exercise Physiology 3 SH
- HLTH 1200 Basic Skills for the Health-Care Professional 2 SH
- HLTH 1201 Lab for HLTH 1200 1 SH

**GPA REQUIREMENT**
2.000 GPA required in the minor