

# HEALTH SCIENCES MAJOR (B.S.)

<https://chhs.unh.edu/kinesiology/program/bs/health-sciences-major>

## Description

The Health Sciences program is for those students who are concerned with the health and well-being of others, possess a strong science aptitude, and plan to pursue a career in healthcare. As healthcare has evolved in the U.S., degree programs in the allied health professions (physical therapy, physician assistant, etc.) have moved to post-baccalaureate education. Individuals with career interests in allied health professions must first attain prerequisite knowledge to be prepared to study in these advanced degree programs. This rigorous academic program provides the foundational life science coursework and advanced elective course offerings to prepare students for graduate programs in the allied health sciences.

Admission to graduate study in medical or allied health professions is very competitive and requires applicants to demonstrate exemplary academic performance for admission.

## Requirements

### Degree Requirements

**Minimum Credit Requirement:** 128 credits

**Minimum Residency Requirement:** 32 credits must be taken at UNH

**Minimum GPA:** 2.0 required for conferral\*

**Core Curriculum Required:** Discovery & Writing Program Requirements

**Foreign Language Requirement:** No

All Major, Option and Elective Requirements as indicated.

\*Major GPA requirements as indicated.

### Major Requirements

Students are required to have earned a minimum, cumulative, GPA of 2.85 by the end of their Sophomore/2nd Year in the Health Sciences Major. Students are also required to achieve a C or better in all required courses in the major. Students with a GPA below 2.85 will be excluded (removed) from the Health Sciences Major.

Code	Title	Credits
<b>Required Courses</b>		
BIOL 411	Introductory Biology: Molecular and Cellular	4
BIOL 412	Introductory Biology: Evolution, Biodiversity and Ecology	4
BMS 507	Human Anatomy and Physiology I	4
BMS 508	Human Anatomy and Physiology II	4
CHEM 403	General Chemistry I	4
CHEM 404	General Chemistry II	4
HS 501	Medical Terminology	2
HS 605	Exploration of Allied Health Professions	2
HS 656	Musculoskeletal Pathologies for Health Professions	4
HS 657	Musculoskeletal Pathologies for Health Professions Lab	1
HS 702	From Lab to Life: Interpretation of Research to Guide Clinical Practice	4
HS 717	Cultural Considerations in Health Care	4

HS 741	The Art and Science of Healthcare Practice: Integrating Clinical Knowledge with Professional Skills	4
HS 767	Pharmacology for Health Professions	4
HS 770	General Medical Conditions for Health Professions	4
KIN 585 & 585L	Emergency Medical Responder and Emergency Medical Responder Lab	5
NUTR 400	Nutrition in Health and Well Being	4
PHYS 401	Introduction to Physics I	4
PSYC 401	Introduction to Psychology	4
HMP 401	United States Health Care Systems	4
HMP 744	Law and Ethics in Healthcare	4
PSYC 402	Statistics in Psychology <sup>1</sup>	4
or SOC 402	Statistics	
or HMP 540	Statistics for Health and Human Service Professionals	

<sup>1</sup> Any UNH statistics course satisfies the requirement with advisor approval.

### Required University Courses

Candidates for a degree must satisfy all of the University Discovery requirements in addition to satisfying the requirements of the Health Sciences curriculum and any pre-requisite coursework needed to apply to the graduate programs they plan to pursue.

### Recommended Electives

A student's plan of elective courses should align with post-baccalaureate pursuits, and be approved by a Health Sciences advisor.

Recommended electives for future health professionals that are external to the Health Sciences courses may include course work in Communication Sciences & Disorders, Human Development & Family Studies, Health & Human Services, Health Management & Policy, Kinesiology, Nursing, Occupational Therapy, Recreation Management & Policy, Social Work, and other coursework in the life sciences and health and human services.

Code	Title	Credits
BMCB 658 & BMCB 659W	General Biochemistry and General Biochemistry Lab	5
BMS 503 & BMS 504	General Microbiology and General Microbiology Laboratory	5
CHEM 545 & CHEM 546	Organic Chemistry and Organic Chemistry Laboratory	5
EXSC 620	Physiology of Exercise	4
GEN 604	Principles of Genetics	4
KIN 652	Clinical Kinesiology	4
KIN 684 & KIN 685	Emergency Medical Care: Emergency Medical Technician (EMT) and Emergency Medical Care: EMT Lab	6
KIN 706	Neurology	4
PHYS 402	Introduction to Physics II	0
PSYC 561	Psychopathology	4
PSYC 581	Child Development	4

## Degree Plan

### Sample Degree Plan

*This sample degree plan serves as a general guide; students collaborate with their academic advisor to develop a personalized degree plan to meet their academic goals and program requirements.*

#### First Year

Fall		Credits
BIOL 411	Introductory Biology: Molecular and Cellular	4
HMP 401	United States Health Care Systems	4

ENGL 401	First-Year Writing	4
Discovery/Elective		4
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BIOL 412	Introductory Biology: Evolution, Biodiversity and Ecology	4
HS 501	Medical Terminology	2
PSYC 401	Introduction to Psychology	4
Discovery/Elective		4
Discovery/Elective		4
<b>Credits</b>		<b>18</b>
<b>Second Year</b>		
<b>Fall</b>		
HS 605	Exploration of Allied Health Professions (fall or spring)	2
KIN 585 & 585L	Emergency Medical Responder and Emergency Medical Responder Lab	5
BMS 507	Human Anatomy and Physiology I	4
Discovery/Elective		4
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
NUTR 400	Nutrition in Health and Well Being	4
BMS 508	Human Anatomy and Physiology II	4
PSYC 402	Statistics in Psychology <sup>1</sup>	4
Discovery Elective		4
<b>Credits</b>		<b>16</b>
<b>Third Year</b>		
<b>Fall</b>		
CHEM 403	General Chemistry I	4
HS 770	General Medical Conditions for Health Professions	4
HS 656	Musculoskeletal Pathologies for Health Professions	4
HS 657	Musculoskeletal Pathologies for Health Professions Lab	1
Discovery Elective (see recommended electives under requirements)		4
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
CHEM 404	General Chemistry II	4
HS 767	Pharmacology for Health Professions	4
HMP 744	Law and Ethics in Healthcare	4
HS 702	From Lab to Life: Interpretation of Research to Guide Clinical Practice	4
<b>Credits</b>		<b>16</b>
<b>Fourth Year</b>		
<b>Fall</b>		
HS 741	The Art and Science of Healthcare Practice: Integrating Clinical Knowledge with Professional Skills	4
PHYS 401	Introduction to Physics I	4
Discovery Elective (see recommended electives under requirements)		4

Discovery Elective (see recommended electives under requirements)	4
<b>Credits</b>	<b>16</b>
<b>Spring</b>	
HS 717 Cultural Considerations in Health Care	4
Discovery Elective (see recommended electives under requirements)	4
Discovery Elective (see recommended electives under requirements)	4
Discovery Elective (see recommended electives under requirements)	4
<b>Credits</b>	<b>16</b>
<b>Total Credits</b>	<b>130</b>

## Student Learning Outcomes

### Program Learning Outcomes

- Demonstrate understanding of core principles of biology, chemistry, physics, anatomy and physiology, psychology, and kinesiology.
- Demonstrate comprehension of musculoskeletal evaluation and assessment techniques.
- Demonstrate responsiveness to cultural considerations in healthcare.
  - a.) Understand influence of age, race, ethnicity, gender, sexual orientation, spirituality, socioeconomic status, and other aspects of diversity on individual healthcare needs and health-related quality of life.
- Demonstrate an understanding of scientific research and writing.
  - a.) Ability to identify and analyze scholarly literature. b.) Ability to synthesize and articulate research findings through writing.
- Demonstrate knowledge of behaviors, scopes of practice, and legal and ethical standards for health professions.
- Understand concepts of evidence-based practice and patient-centered care for health professions.