

Bouvé College of Health Sciences

www.bouve.neu.edu

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The programs in Bouvé College of Health Sciences combine cooperative education experiences with highly innovative academic curricula that are designed to meet the demand for well-educated allied health professionals, nurses, and pharmacists. The college prepares students to become effective professional practitioners, enter graduate schools, and work in many areas responsible for the delivery of health care.

There are three schools within the Bouvé College of Health Sciences: the School of Nursing, the School of Pharmacy, and the School of Health Professions, which comprises the following majors: athletic training, cardiopulmonary and exercise sciences, health science, medical laboratory science, physical therapy, and speech-language pathology and audiology. The college offers students a health-care education that features a curriculum of highly relevant and closely integrated basic courses in the physical, biological, behavioral, and administrative sciences; on-site involvement in clinical patient care, including early and advanced pharmacy practice experiences and clinical affiliations in nursing, physical therapy, and other health professions; a cooperative education work program; and a commitment to the search for and advancement of new and progressive concepts, ideas, and philosophies of education and professional practice.

Each of the programs offered by the college is accredited by the appropriate professional group. The college is a member of the Association of Schools of Allied Health Professions, the American Association of Colleges of Nursing, and the American Association of Colleges of Pharmacy.

Academic Requirements

Students are responsible for following the curriculum plan for their major, co-op division, and graduation year. Students are responsible for monitoring their own progress through the curriculum by registering for the courses stipulated by their curriculum plan, knowing course prerequisites, regularly checking the degree audit system, and knowing the sanctions for unsatisfactory academic progress. Any exceptions to a student's curriculum plan must be approved by their academic adviser.

College Academic Standards

Students must receive a grade of C or better in professional courses.

Professional courses:

Required courses taught within the major/college as identified by unit/faculty: ATP, BHS, CAP, CES, MLS, NUR, PMD, PSC, PTH, SLA, TOX

Courses from the above-listed departments that are taken as electives are exempt from the C or better rule and the University's minimum satisfactory grade will be accepted.

Students must receive a grade of C– or better in selected professional prerequisites.

Professional prerequisites:

Athletic Training: BIO, CHM, MTH, PHY, PSC

Cardiopulmonary and Exercise Sciences: BIO, CHM, MTH, PHY, PSC

Health Science: BIO, CHM, MTH

Medical Laboratory Science: BIO, CHM, MTH, PHY

Nursing: BIO, CHM, MTH

Pharmacy: BIO, CHM, PHY, MTH

Effective with the fall 2005 entering class, pharmacy students must receive a grade of C or better in professional prerequisites beginning in the second year of the curriculum.

Physical Therapy: BIO, CES, CHM, MTH, PHY, PSY

Effective with the fall 2006 entering class, physical therapy students must receive a grade of C or better in professional prerequisites beginning in the second year of the curriculum.

Speech-Language Pathology and Audiology: BIO, MTH, PHY, PSY U101

Courses from the above-listed departments that are taken as electives are exempt from the C– or better rule and the University's minimum satisfactory grade will be accepted.

For all other courses:

The University's minimum passing grade for the course will be accepted. *Please note:* The University requires a minimum grade of C for ENG U111 and ENG U306.

Progression within Bouvé

- First-year students must complete at least 27 semester hours and meet all major prerequisite course requirements in order to progress to sophomore status. First-year students who earn fewer than the semester hours stipulated by the curriculum plan for their major must make up the difference prior to graduation.
- In order to progress into the subsequent year of professional courses, students must have completed all professional courses with a grade of C or better and all professional prerequisites with a grade of C– or better (except for pharmacy and physical therapy, which require a C in professional prerequisites beginning in the second year).
- Effective with the fall 2005 entering class, pharmacy students must receive a grade of C or better in professional prerequisites beginning in the second year, have satisfactorily completed all courses in years one and two of the curriculum, and have an overall GPA of 2.700 or better to progress from second- to third-year status.

- Effective with the fall 2006 entering class, physical therapy students must receive a grade of C or better in professional prerequisites beginning in the second year and have a 2.700 overall GPA to enter the graduate phase of the Doctor of Physical Therapy (DPT) program. Students must maintain a 3.000 overall GPA during the graduate phase of the DPT program in order to progress and graduate with the DPT.
- Physical therapy students entering *prior* to fall 2006 are required to have a 2.670 overall GPA to progress from the fourth to the fifth year of the program. Students must maintain an overall GPA of 3.000 during the sixth year of the program.
- Students who incur an incomplete grade in a prerequisite course must obtain approval from their academic adviser, upon consultation with the department faculty, prior to progression into the subsequent course(s).
- Students dismissed administratively from the English Language Center are not eligible for the Bouvé program to which they were conditionally admitted.

Academic Dismissal from Major

Note: Students dismissed from their major but who are otherwise in good standing with the University are allowed to remain at Northeastern University for up to two semesters as a provisional Bouvé student, by the end of which the student is expected to move into a new major or be accepted back into their original major; otherwise, the student will be dismissed from the University.

Students in the Bouvé College of Health Sciences will be dismissed from their major effective the following academic semester for any of the reasons noted below:

- Failure to earn a grade of C or better in three professional courses, regardless of remediation. Lecture and clinical/lab components for the same class are considered as *one* professional course failure.
- Failure to earn the minimum required grade in the same course twice.

Criteria for University Academic Probation

Note: Notation of academic probation will appear on internal record but not on permanent transcript.

Students in the Bouvé College of Health Sciences will be placed on academic probation effective the following academic semester for any of the reasons noted below:

First-year Students:

- Not earning at least 12 semester hours in the second semester of the first year.
- Not maintaining an overall cumulative GPA of at least 1.800 at the end of the two semesters of the first-year curriculum.

Upper class and Transfer Students:

- Not earning at least 12 semester hours in the semester just completed.
- Not maintaining an overall cumulative GPA of at least

2.000 at the end of each academic semester.

Academic Dismissal from University

Students who remain on probation after two academic semesters may be dismissed from the University. Notation of this academic dismissal action will appear on the permanent transcript.

Academic Appeals

Students who believe that they were erroneously, capriciously, or otherwise unfairly treated in an academic or cooperative education decision may petition to appeal the decision. Refer to the *Bouvé Undergraduate Student Manual*, which details the Bouvé College of Health Sciences Appeals Process, and the *Northeastern University Student Handbook*, which details the University Undergraduate Student Academic Appeals Procedures.

Bouvé College of Health Sciences Approved Courses:

Diversity

AFR U101	African-American Studies	4 SH	CIN U240	Latin American Film	4 SH
AFR U104	Survey of African-American Music	4 SH	or LNS U240	Latin American Film	4 SH
AFR U109	Foundations of Black Culture 1	4 SH	CIN U255	Chinese Film: Gender and Ethnicity	4 SH
AFR U128	Music of Africa	4 SH	or LNC U255	Chinese Film: Gender and Ethnicity	4 SH
or MUS U128	Music of Africa	4 SH	CIN U260	Japanese Film	4 SH
AFR U131	Music of Latin America	4 SH	or LNJ U260	Japanese Film	4 SH
	and the Caribbean		CIN U270	Modern German Film and Literature	4 SH
AFR U140	Introduction to African-American History	4 SH	or LNG U270	Modern German Film and Literature	4 SH
AFR U180	African History	4 SH	CIN U280	French Film and Culture	4 SH
or HST U180	African History	4 SH	or LNF U280	French Film and Culture	4 SH
AFR U185	Gender in the African Diaspora	4 SH	CIN U460	Jewish Film	4 SH
AFR U212	History of Race	4 SH	or INT U460	Jewish Film	4 SH
AFR U261	The Modern Caribbean	4 SH	CJ U102	Ethics, Values, and Diversity	4 SH
AFR U301	Foundations of Black Culture 2	4 SH	ED U150	Multicultural Children's Literature	4 SH
AFR U320	The Black Family	4 SH	ENG U670	Modern African-American Literature	4 SH
AFR U325	African-American Women	4 SH	ENG U671	Multiethnic Literature of the U.S.	4 SH
AFR U337	African-American History before 1900	4 SH	ENG U672	Asian-American Literature	4 SH
or HST U337	African-American History before 1900	4 SH	ENG U673	U.S. Latino/Latina Literature	4 SH
AFR U338	African-American History since 1900	4 SH	ENG U674	American Indian Literature	4 SH
or HST U338	African-American History since 1900	4 SH	ENG U675	Gay and Lesbian Literature	4 SH
AFR U365	Blacks and Jews	4 SH	ENG U691	Gender Roles in Literature	4 SH
or POL U365	Blacks and Jews	4 SH	HS U560	Religion, Human Services, and Diversity	4 SH
AFR U367	Race and Social Identity	4 SH		in the United States	
AFR U399	Black Community and Social Change	4 SH	HST U150	East Asian Studies	4 SH
AFR U410	Religion and Spirituality in the	4 SH	HST U204	Third World Women	4 SH
	African Diaspora		HST U250	Emergence of East Asia	4 SH
or PHL U410	Religion and Spirituality in the	4 SH	HST U252	Japanese Literature and Culture	4 SH
	African Diaspora		HST U260	Modern Latin America	4 SH
AFR U607	History of East Africa	4 SH	HST U261	The Modern Caribbean	4 SH
AFR U608	History of West Africa	4 SH	HST U281	Holocaust	4 SH
AFR U609	History of South Africa	4 SH	HST U285	Russian Civilization	4 SH
AFR U663	Early African-American Literature	4 SH	or LNR U285	Russian Civilization	4 SH
AFR U900	Seminar: Authors in the African Diaspora	4 SH	HST U290	Modern Middle East	4 SH
ASL U150	Deaf People in Society	4 SH	HST U310	Spread of Buddhism	4 SH
ASL U350	Deaf History and Culture	4 SH	HST U312	Global Migration and the Modern World	4 SH
BHS U302	Alternative Medicine	4 SH	HST U313	Gender and Revolution in Russia	4 SH
				and China	
			HST U340	Cultural History of the U.S.	4 SH
			HST U350	Modern China	4 SH
			HST U351	Japan since 1850	4 SH
			HST U372	Gender and Society in Modern Europe	4 SH
			HST U375	Culture and Identity in Early Modern	4 SH
				England	
			HST U377	Ireland and the Irish Migration	4 SH
			HST U390	Africa and the World in Early Times	4 SH
			HST U391	Modern African Civilization	4 SH
			HST U392	African Diaspora	4 SH
			HST U393	Islam and Empires	4 SH
			HST U394	Islamic Nationalism	4 SH
			HST U431	American Jewish History	4 SH
			HST U432	Latin America in Boston	4 SH
			HST U452	Global Chinese Migration	4 SH
			HST U475	The Culture of Europe	4 SH
			HST U485	Vienna, Prague, Budapest	4 SH
			or LNR U485	Vienna, Prague, Budapest	4 SH
			HST U600	Topics in Women's History	4 SH

HST U640	Topics in African-American History	4 SH	POL U915	Model Arab League	4 SH
HST U660	Topics in Latin American History	4 SH	PSY U204	Psychology of Prejudice	4 SH
HST U680	Topics in Russian History	4 SH	SOA U101	Peoples and Cultures	4 SH
HST U681	Topics in Soviet History	4 SH	SOA U200	Peoples and Cultures of the Middle East	4 SH
HST U682	Topics in East European History	4 SH	SOA U210	Hot Button Issues in the Middle East	4 SH
HST U690	Topics in African History	4 SH	SOA U302	Gender and Sexuality: A Cross-Cultural Perspective	4 SH
INB U310	Cultural Aspects of International Business	4 SH	SOA U312	The Anthropology of Masculinity	4 SH
INT U103	Women's Studies	4 SH	SOA U315	Religion and Modernity	4 SH
or PHL U103	Women's Studies	4 SH	SOA U400	Muslims, Jews, and Christians in the Middle East	4 SH
or SOC U103	Women's Studies	4 SH	SOA U500	Latin American Society and Development	4 SH
INT U150	East Asian Studies	4 SH	SOA U505	Native North Americans	4 SH
INT U220	Latino, Latin American, and Caribbean Studies	4 SH	SOA U550	Culture and Survival	4 SH
or SOA U220	Latino, Latin American, and Caribbean Studies	4 SH	SOC U215	Society and Culture in Russia	4 SH
INT U285	Jewish Religion and Culture	4 SH	SOC U240	Sociology of Prejudice and Violence	4 SH
or PHL U285	Jewish Religion and Culture	4 SH	SOC U259	Women in Jewish Culture	4 SH
INT U443	Topics in Russian Studies	4 SH	SOC U260	Gender in a Changing Society	4 SH
INT U444	Topics in Japanese Studies	4 SH	SOC U270	Race and Ethnic Relations	4 SH
INT U640	Topics in Jewish Studies	4 SH	SOC U275	Social Stratification	4 SH
LIN U428	African Languages	4 SH	SOC U460	Sociology of Latino Society	4 SH
LNC U150	Backgrounds of Chinese Culture	4 SH	SOC U520	Race, Class, and Gender	4 SH
LNF U150	Introduction to French Culture	4 SH	THE U220	African-American Theatre	4 SH
LNJ U150	Introduction to Japanese Pop Culture	4 SH			
LNR U386	History of Soviet Cinema	4 SH			
LNS U150	Spanish Culture	4 SH			
LNS U160	Latin American Culture	4 SH			
LNS U170	Caribbean Literature and Culture	4 SH			
LNS U220	Latino, Latin American, and Caribbean Studies	4 SH			
MUS U106	Women in Music	4 SH			
MUS U129	Music of the Middle East	4 SH			
MUS U130	Music of Asia	4 SH			
MUS U131	Music of Latin America and the Caribbean	4 SH			
MUS U132	Music of the Jewish People	4 SH			
PHL U110	Introduction to Religion	4 SH			
PHL U130	Ethics: East and West	4 SH			
PHL U265	Latin American Religions	4 SH			
PHL U275	Eastern Religions	4 SH			
PHL U280	Islam	4 SH			
PHL U290	Chinese Philosophy and Religion	4 SH			
POL U370	Religion and Politics	4 SH			
POL U375	Gender and Politics	4 SH			
POL U380	Latino Politics in the United States	4 SH			
POL U441	Third World Political Relations	4 SH			
POL U445	Politics in Central and Eastern Europe	4 SH			
POL U450	Government and Politics in Russia	4 SH			
POL U460	Government and Politics in Africa	4 SH			
POL U465	Government and Politics in the Middle East	4 SH			
POL U470	Arab-Israeli Conflict	4 SH			
POL U475	Government and Politics in Latin America	4 SH			
POL U480	Government and Politics in Japan	4 SH			
POL U485	Government and Politics in China	4 SH			
POL U487	Politics of Developing Nations	4 SH			
POL U544	Seminar in Black Leadership	4 SH			

ATHLETIC TRAINING

www.bouve.neu.edu/programs/at/index.php

JAMIE L. MUSLER, MS, ATC

Program Director and Assistant Clinical Specialist

ASSISTANT PROFESSORS

Paul K. Canavan, PhD, PT, ATC, CSCS

Suanne Maurer-Starks, EdD, ATC

COORDINATOR OF CLINICAL EDUCATION AND ASSISTANT CLINICAL SPECIALIST

Kimberly Ashton Wise, MS, ATC

ASSISTANT CLINICAL SPECIALISTS

Michelle Burke Burgess, MBA, ATC, CSCS

Adam Thomas, MA, ATC

The five-year athletic training education program is designed for students who are interested in an allied health-care profession specializing in the health care of the physically active. Working under a physician's supervision, athletic trainers are members of the sports medicine field who specialize in the prevention, evaluation, management, treatment, and rehabilitation of injuries and illnesses. Athletic trainers function as integral members of the health-care team in secondary schools, colleges and universities, professional sports programs, sports medicine clinics, hospitals, corporate and industrial settings, and other health-care facilities.

Students may apply from high school or apply for transfer into the athletic training education program after successfully completing their first year of academic study. To be accepted into the program, transfer applicants must demonstrate an established academic record with a solid foundation in the sciences. In addition, the athletic training education program has minimum physical, emotional, and cognitive skill requirements considered necessary for all students admitted to the program. These requirements are outlined in the Technical Standards that can be found on the program Web site and from the program office. Candidates for selection to the athletic training education program will be required to verify they understand and meet these Technical Standards or that they believe, with certain accommodations, they can meet the standards. It is the sole responsibility of the student to notify the Disability Resource Center if they feel accommodations are needed.

Students in the program take courses designed to develop competencies in the following domains: risk management and injury prevention, pathology of injuries and illnesses, assessment and evaluation, acute care of injury and illness, pharmacology, therapeutic modalities, therapeutic exercise, general medical conditions and disabilities, nutritional aspects of injury and illness, psychosocial intervention and referral, health-care administration, and professional development and responsibilities. The athletic training education program is committed to the advancement of scholarship by implementing evidence-based practice into didactic, clinical, and cooperative education. In addition, students are required to fulfill clinical education requirements in four structured clinical affiliations during academic semesters. These affiliations may include Northeastern University, other colleges, universities, and high schools as well as clinics and medical facilities in the Boston area. To progress in the program, students must maintain acceptable standards of scholarship, academic performance, and psychomotor development as outlined in this catalog and the student handbook.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Students who graduate from the athletic training education program are eligible to sit for the Board of Certification examination for athletic trainers and may be eligible for state licensure in those states that require licensure for athletic trainers. See pages 279–281 for course descriptions.

Bachelor of Science in Athletic Training

SEMESTER 1

Athletic Health-Care Overview

Complete the following course with a grade of C or higher:
ATP U106 Overview of Athletic Health Care 2 SH

Freshman Seminar

Complete the following course:
BHS U100 College: An Introduction 1 SH

Anatomy and Physiology 1

Complete the following course with corresponding lab:
BIO U117 Integrated Anatomy and Physiology 1 4 SH
with BIO U118 Lab for BIO U117 1 SH

Chemistry 1

Complete the following course with corresponding lab:
CHM U101 General Chemistry for Health Sciences 4 SH
with CHM U102 Lab for CHM U101 1 SH

Precalculus

Complete the following course:
MTH U121 Precalculus 4 SH

SEMESTER 2

Clinical Practice Skills

Complete the following course with corresponding lab:
ATP U120 Clinical Practice Skills in Athletic 3 SH
Training
with ATP U121 Lab for ATP U120 1 SH

Application of Protective Devices

Complete the following course:
ATP U122 Lab: Application of Protective Devices 1 SH
in Athletic Training

Anatomy and Physiology 2

Complete the following course with corresponding lab:
BIO U119 Integrated Anatomy and Physiology 2 4 SH
with BIO U120 Lab for BIO U119 1 SH

Introductory English

Complete the following course with a grade of C or higher:
ENG U111 College Writing 4 SH

Physics 1

Complete the following course with corresponding lab:
PHY U145 Physics for Life Sciences 1 4 SH
with PHY U146 Lab for PHY U145 1 SH

SEMESTER 3

Therapeutic Modalities

Complete the following course with corresponding lab:
ATP U310 Therapeutic Modalities 3 SH
with ATP U311 Lab for ATP U310 1 SH

Therapeutic Exercise

Complete the following course with corresponding lab:
ATP U320 Therapeutic Exercise 3 SH
with ATP U321 Lab for ATP U320 1 SH

Athletic Training Affiliation 1

Complete the following course:
ATP U941 Athletic Training Clinical Affiliation 1 3 SH

Clinical Kinesiology

Complete the following course with corresponding lab:
CES U504 Clinical Kinesiology 4 SH
with CES U505 Lab for CES U504 1 SH

SEMESTER 4 (SUMMER)

Neuromuscular and Cardiovascular Programming

Complete the following course:
ATP U330 Neuromuscular and Cardiovascular 2 SH
Programming

Evaluation: Head and Spine

Complete the following course with corresponding labs:

ATP U520	Evaluation: Head and Spine	4 SH
with ATP U521	Evaluation: Head and Spine Skills Lab	1 SH
with ATP U522	Evaluation: Head and Spine Anatomy Lab	1 SH

SEMESTER 5**Evaluation: Lower Extremity**

Complete the following course with corresponding labs:

ATP U500	Evaluation: Lower Extremity	4 SH
with ATP U501	Evaluation: Lower Extremity Skills Lab	1 SH
with ATP U502	Evaluation: Lower Extremity Anatomy Lab	1 SH

Athletic Training Affiliation 2

Complete the following course:

ATP U942	Athletic Training Clinical Affiliation 2	3 SH
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Advanced Writing in the Disciplines

Complete the following course with a grade of C or higher:

ENG U306	Advanced Writing in the Health Professions	4 SH
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Psychology

Complete the following course:

PSY U101	Foundations of Psychology	4 SH
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SEMESTER 6 (SUMMER)**Evaluation: Upper Extremity**

Complete the following course with corresponding labs:

ATP U510	Evaluation: Upper Extremity	4 SH
with ATP U511	Evaluation: Upper Extremity Skills Lab	1 SH
with ATP U512	Evaluation: Upper Extremity Anatomy Lab	1 SH

Health Counseling

Complete the following course:

CAP U502	Health Counseling	3 SH
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SEMESTER 7**Athletic Training Affiliation 3**

Complete the following course:

ATP U943	Athletic Training Clinical Affiliation 3	3 SH
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Nutrition

Complete the following course:

BHS U105	Nutrition	4 SH
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Exercise Physiology

Complete the following course with corresponding lab:

CES U500	Exercise Physiology 1	4 SH
with CES U501	Lab for CES U500	1 SH

Pharmacology

Complete the following course:

PSC U340	Pharmacology for the Health Professions	4 SH
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SEMESTER 8**Disease and Disabilities**

Complete the following course:

ATP U530	Disease and Disabilities in Athletics	3 SH
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Research

Complete the following course:

BHS U450	Health-Care Research	4 SH
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Diversity

Complete the following course:

SOA U101	Peoples and Cultures	4 SH
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or complete a course from the list “Bouvé College of Health Sciences Approved Courses: Diversity” on page 161.

Athletic Training Affiliation 4

Complete the following course:

ATP U944	Athletic Training Clinical Affiliation 4	3 SH
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SEMESTER 9**Administration**

Complete the following course:

ATP U600	Administration in Athletic Health Care	4 SH
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Senior Experience

Complete the following course:

ATP U946	Athletic Training Senior Experience	2 SH
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Free Electives

Complete two courses outside athletic training.

GRADE REQUIREMENT

A grade of C or higher is required in all ATP courses.

GENERAL ELECTIVES

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

COOPERATIVE EDUCATION**UNIVERSITY-WIDE REQUIREMENTS**

133 total semester hours required

Minimum 2.000 GPA required

HEALTH SCIENCES

www.bouve.neu.edu/programs/healthsci/index.php

WILLIAM J. GILLESPIE, EDD

Associate Professor and Chair

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VISITING SNELL PROFESSOR

Jean McGuire, PhD

VISITING ASSISTANT CLINICAL SPECIALIST

Ellen Glovsky, PhD

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 designed to prepare graduates to meet this critical need. The major is designed for undergraduate students who are seeking a general preparation for positions in health care, health promotion, health administration, and community-based public health. It is also aimed at providing students with the appropriate background and preparation for entry into graduate and professional programs including medicine, dentistry, veterinary medicine, public health, public policy, physician assistant, and social work.

The health science curriculum is an integrated model that builds upon a foundation of the social sciences, natural sciences, and the liberal arts. 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 a deep understanding of health policy and administration, health research, quality improvement, medical informatics, and evidence-based health care. The health science curriculum also includes a significant number of electives that enable students to enrich their intellectual lives. Students will identify a specific area of interest and use the majority of these electives to explore their declared focus. Students may use the electives to undertake a formal minor in an academic area that is related to and 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. See pages 281–283 for course descriptions.

Exercise Sciences

Exercise physiologists administer exercise tests and develop, implement, and supervise exercise and health-promotion programs for people to help improve their health, fitness, and functional capacity. Clinical exercise physiologists do the above but work primarily with patients who have chronic cardiovascular, pulmonary, metabolic, and musculoskeletal diseases and disorders to help improve their health, fitness, and functional status. Students may elect a minor in exercise physiology within the BS in health science program. Upon graduation, students may then apply to the MS in clinical exercise physiology. See pages 290–292 for course descriptions.

BS in Health Science**YEAR 1****American Health Care**

Complete the following course:

BHS U260 The American Health-Care System 4 SH

Freshman Seminar

Complete the following course:

BHS U100 College: An Introduction 1 SH

General Biology 1 and 2

Complete the following two courses with corresponding labs:

BIO U111 General Biology 1 4 SH

with BIO U112 Lab for BIO U111 1 SH

BIO U113 General Biology 2 4 SH

with BIO U114 Lab for BIO U113 1 SH

Mathematics

Complete the following course:

MTH U121 Precalculus 4 SH

General Chemistry 1

Take one of the following courses with corresponding lab:

CHM U101 General Chemistry for Health Sciences 4 SH

with CHM U102 Lab for CHM U101 1 SH

CHM U211 General Chemistry 1 4 SH

with CHM U212 Lab for CHM U211 1 SH

General Chemistry 2

Take one of the following courses with corresponding lab:

CHM U104 Organic Chemistry for Health Sciences 4 SH

with CHM U105 Lab for CHM U104 1 SH

CHM U214 General Chemistry 2 4 SH

with CHM U215 Lab for CHM U214 1 SH

Foundations of Psychology

Complete the following course:

PSY U101 Foundations of Psychology 4 SH

College Writing

Complete the following course with a grade of C or higher:

ENG U111 College Writing 4 SH

YEAR 2**Community and Public Health**

Complete the following course:

BHS U350 Community and Public Health 4 SH

Anatomy and Physiology 1 and 2

Complete the following two courses with corresponding labs:

BIO U117	Integrated Anatomy and Physiology 1	4 SH
with BIO U118	Lab for BIO U117	1 SH
BIO U119	Integrated Anatomy and Physiology 2	4 SH
with BIO U120	Lab for BIO U119	1 SH

Statistics and Software

Complete the following course:

MTH U280	Statistics and Software	4 SH
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Nutrition

Complete the following course:

BHS U105	Nutrition	4 SH
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Professional Development for Co-op

Complete the following course:

COP U101	Professional Development for Co-op	1 SH
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Basic Clinical Skills

Complete the following course:

CES U202	Basic Clinical Skills	3 SH
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Program Electives 1 and 2

Complete two courses selected in consultation with your adviser 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:

ENG U306	Advanced Writing in the Health Professions	4 SH
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Communications for Health Professions

Complete the following course:

BHS U300	Communication Skills for the Health Professions	4 SH
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Health-Care Research

Complete the following course:

BHS U450	Health-Care Research	4 SH
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Health-Care Ethics

Complete the following course:

BHS U510	Health-Care Ethics	4 SH
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Influences on Health and Illness

Complete the following course:

NUR U210	Influences on Health and Illness: A Nursing Perspective	3 SH
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Program Electives 3–5

Complete three courses selected in consultation with your adviser as part of your declared track of study.

FINAL YEAR**Race, Ethnicity, and Health (Diversity)**

Complete the following course:

BHS U520	Race, Ethnicity, and Health in the United States	4 SH
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Health-Care Management

Complete the following course:

BHS U511	Health-Care Management	4 SH
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Health Policy

Complete the following course:

BHS U515	Health Policy	4 SH
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General Electives

Complete three general electives.

Health Sciences Capstone Project

Complete the following course:

BHS U710	Health Science Capstone	4 SH
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Health Education and Program Planning

Complete the following course:

BHS U540	Health Education and Program Planning	4 SH
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GRADE REQUIREMENT

A grade of C or higher is required in all health science courses.

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 with Premed Track**YEAR 1****American Health Care**

Complete the following course:

BHS U260	The American Health-Care System	4 SH
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Freshman Seminar

Complete the following course:

BHS U100	College: An Introduction	1 SH
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General Biology 1 and 2

Complete the following two courses with corresponding labs:

BIO U111	General Biology 1	4 SH
with BIO U112	Lab for BIO U111	1 SH
BIO U113	General Biology 2	4 SH
with BIO U114	Lab for BIO U113	1 SH

Mathematics

Complete the following course:

MTH U141	Calculus 1	4 SH
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General Chemistry 1

Complete the following course with corresponding lab:

CHM U211	General Chemistry 1	4 SH
with CHM U212	Lab for CHM U211	1 SH

General Chemistry 2

Complete the following course with corresponding lab:

CHM U214	General Chemistry 2	4 SH
with CHM U215	Lab for CHM U214	1 SH

Foundations of Psychology

Complete the following course:

PSY U101	Foundations of Psychology	4 SH
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College Writing

Complete the following course with a grade of C or higher:

ENG U111 College Writing 4 SH

YEAR 2**Basic Clinical Skills**

Complete the following course:

CES U202 Basic Clinical Skills 3 SH

Community and Public Health

Complete the following course:

BHS U350 Community and Public Health 4 SH

Anatomy and Physiology 1 and 2

Complete the following two courses with corresponding labs:

BIO U117 Integrated Anatomy and Physiology 1 4 SH

with BIO U118 Lab for BIO U117 1 SH

BIO U119 Integrated Anatomy and Physiology 2 4 SH

with BIO U120 Lab for BIO U119 1 SH

Statistics and Software

Complete the following course:

MTH U280 Statistics and Software 4 SH

Nutrition

Complete the following course:

BHS U105 Nutrition 4 SH

Organic Chemistry 1 and 2

Complete the following two courses with corresponding labs:

CHM U311 Organic Chemistry 1 4 SH

with CHM U312 Lab for CHM U311 1 SH

CHM U313 Organic Chemistry 2 4 SH

with CHM U314 Lab for CHM U313 1 SH

Professional Development for Co-op

Complete the following course:

COP U101 Professional Development for Co-op 1 SH

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:

ENG U306 Advanced Writing in the Health Professions 4 SH

Communications for Health Professions

Complete the following course:

BHS U300 Communication Skills for the Health Professions 4 SH

Health-Care Research

Complete the following course:

BHS U450 Health-Care Research 4 SH

Health-Care Ethics

Complete the following course:

BHS U510 Health-Care Ethics 4 SH

Physics 1 and 2

Complete the following two courses with corresponding labs:

PHY U145 Physics for Life Sciences 1 4 SH

with PHY U146 Lab for PHY U145 1 SH

PHY U147 Physics for Life Sciences 2 4 SH

with PHY U148 Lab for PHY U147 1 SH

Influences on Health and Illness

Complete the following course:

NUR U210 Influences on Health and Illness: A Nursing Perspective 3 SH

Program Elective—Advanced Science

Complete one intermediate or advanced science course from the following list:

BIO U121 Basic Microbiology 4 SH

with BIO U122 Lab for BIO U121 1 SH

BIO U301 to BIO U699

CHM U321 Analytical Chemistry 4 SH

with CHM U322 Lab for CHM U321 1 SH

CHM U331 to CHM U699

PHY U303 to PHY U699

PSY U202 Biological Basis of Mental Illness 4 SH

PSY U350 Researching Consciousness 4 SH

PSY U352 Childhood Mental Illness 4 SH

PSY U358 to PSY U699

FINAL YEAR**Race, Ethnicity, and Health (Diversity)**

Complete the following course:

BHS U520 Race, Ethnicity, and Health in the United States 4 SH

Health-Care Management

Complete the following course:

BHS U511 Health-Care Management 4 SH

Health Policy

Complete the following course:

BHS U515 Health Policy 4 SH

Health Education and Program Planning

Complete the following course:

BHS U540 Health Education and Program Planning 4 SH

Health Sciences Capstone Project

Complete the following capstone course:

BHS U710 Health Science Capstone 4 SH

General Electives

Complete three general electives.

GRADE REQUIREMENT

A grade of C or higher is required in all health science courses.

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

Minor in Health Science**REQUIRED COURSES**

Complete the following six courses:

BHS U260	The American Health-Care System	4 SH
BHS U300	Communication Skills for the Health Professions	4 SH
BHS U350	Community and Public Health	4 SH
BHS U450	Health-Care Research	4 SH
BHS U510	Health-Care Ethics	4 SH
BHS U511	Health-Care Management	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 lab:

CES U202	Basic Clinical Skills	3 SH
CES U500	Exercise Physiology 1	4 SH
with CES U501	Lab for CES U500	1 SH
CES U502	Exercise Testing and Prescription	4 SH
CES U504	Clinical Kinesiology	4 SH
CES U520	Exercise Physiology 2	3 SH

GPA REQUIREMENT

2.000 GPA required in the minor

PHYSICAL THERAPY

www.bouve.neu.edu/programs/pt/index.php

MEREDITH H. HARRIS, EdD, PT

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SUSAN LOWE, MS, PT, GCS

Associate Clinical Specialist and Associate Chair

SUSAN H. VENTURA, PhD, PT

Associate Clinical Specialist and Director of Clinical Education

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Robert Sikes, PhD

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Nancy H. Sharby, MS, PT

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Mary J. Hickey, MHP, PT, OCS

Alycia Markowski, MS, PT, FAAOMPT

Entry-Level DPT Program

The physical therapy program prepares its graduates to provide quality patient care in a time of changing concepts, trends, and challenges. Students learn to help clients gain independence and to recognize and manage the emotional and socioeconomic problems that affect recovery.

The program in physical therapy has three admission points: freshman, transfer, or as a graduate student with a baccalaureate degree in a field other than physical therapy. The freshman entry program culminates at the end of six years in an entry-level Doctor of Physical Therapy (DPT) degree. Cooperative education is unique to and the hallmark of Northeastern University. Ongoing professional development is accomplished through integration of the combination of classroom and experiential activities. Students of physical therapy alternate semesters of academic study with semesters of cooperative education work experience. Students may be employed as physical therapy co-op students with increasing responsibilities commensurate with their academic studies, or they may perform other health-related duties. These experiences provide an opportunity for the application and reinforcement of the lessons learned in the classroom and laboratory. Prior to graduation, students have twelve months of work experience incorporated into the academic program.

In addition to cooperative education, the program includes twenty-eight weeks of clinical education. Clinical education allows the student to practice professional skills under the supervision of a licensed physical therapist. Clinical sites across the United States, offering a wide range of specialties, participate in our clinical education program. Every effort is made to accommodate individual circumstances, but students should be prepared to travel out of state for two of the three clinical courses. Availability of a car is also required, as most sites are not accessible by public transportation. All expenses associated with clinical education, including travel and housing, are the responsibility of the student. A very small number of sites offer student incentives, including stipends, meals, and housing at low or no cost to the student, but that is becoming increasingly rare.

Physical therapists provide services to patients and clients who have impairments, functional limitations, disabilities, or changes in physical function resulting from injury, disease, or other causes. In addition, physical therapists are involved in