COLLEGE OF HEALTH AND NATURAL SCIENCE

Health Science

Associate Professor: Leila S. Jabbour,

Assistant Professors: Thomas E. Bennett, Tongyu Ma, Lindsay Vago

A Bachelor of Science degree is offered in Health Sciences to traditional students.

The mission of the Health Sciences major is to prepare students for entry into graduate programs including Physical Therapy, Nursing, Occupational Therapy, Physician Assistant, Medical School, Dental School, Veterinary School and others. The wide variety of course offerings will also allow students to explore careers in public health agencies, research, healthcare management, science writing, elder services, health education, wellness services, human services, health insurance, and pharmaceutical sales.

The curriculum develops critical thinking skills, the ability to use the medical and basic scientific primary literature, a broad biomedical knowledge base, and a clear understanding of the requirements necessary to succeed in the application to graduate schools in healthcare related fields. Students interested in careers and graduate programs in healthcare are encouraged to meet with a member of the Health Sciences Advising Committee early in their program. Faculty members of this committee will assist the student in self-assessment, development of career goals, and construction of a realistic plan for the student's successful attainment of their goals.

Accelerated Bachelor of Science degree in Health Science

Franklin Pierce offers motivated students the opportunity to complete their undergraduate Health Science degrees in just three years. Students completing their undergraduate degrees through the Accelerated Program save a year's tuition and fees and enter the job market earlier or can choose to apply to our graduate program a year earlier. Several accelerated options are available to new and continuing students who have a record of strong academic achievement and a desire to advance their education.

Personalized schedules are available to student athletes and those with work or volunteer commitments so students can take advantage of all that Franklin Pierce has to offer. The following options are available:

3-year Accelerated Health Science degree

Complete your undergraduate Health Science degree in three years.

3+2.5 Accelerated Health Science degree + Doctor of Physical Therapy

Complete your undergraduate Health Science degree in three years and the Doctor of Physical Therapy degree in 2.5 years.

4+2.5 Traditional Health Science degree + Doctor of Physical Therapy

Complete your undergraduate Health Science degree in four years and the Doctor of Physical Therapy degree in 2.5 years.

3+2 Accelerated Health Science degree + Master of Physician Assistant Studies

Complete your undergraduate Health Science degree in three years and the Master of Physician Assistant Studies in 2 years.

4+2 Traditional Health Science degree + Master of Physician Assistant Studies

Complete your undergraduate Health Science degree in four years and the Master of Physician Assistant Studies in 2 years.

3+1.5 Accelerated Health Science degree + Master's Entry to Practice Nursing

Complete your undergraduate Health Science degree in three years and the Master's Entry to Practice Nursing in 1.5 years.

4+1.5 Traditional Health Science degree + Master's Entry to Practice Nursing

Complete your undergraduate Health Science degree in four years and the Master's Entry to Practice Nursing in 1.5 years.

Major Requirements

Applying to the Accelerated Health Science Programs

- Minimum cumulative grade point average (CGPA), in academic courses only, of a 3.0 on a 4.0 scale (84/100)
- Equivalent of four years of math with a final grade of B + (87/100) or higher in each class
- Equivalent of four years of science with a final grade of B+(87/100) or higher in each class
- Demonstrated leadership through community and school activities; related healthcare experience is highly desirable.

Accelerated Health Science Requirements

To be eligible for a Health Science degree, students must fulfill the major and GLE requirements. In addition, the following are the program requirements for students admitted into the accelerated programs:

- Maintain a minimum cumulative grade point average of 3.2.
- Obtain no less than a "B" in all of the Health Science major requirements.

In the event that students do not meet these requirements they will be transitioned into our standard Health Science program.

Health Science Curriculum

The curriculum for the accelerated and traditional Health Science program is the same, the difference being that the accelerated program requires course work to be completed over the summer terms.

The Health Science program is able to accommodate prerequisites for the DPT, MPAS, and MEPN program. You do not need to determine the specific graduate program you wish to pursue until the spring semester of your junior year, this is where the program prerequisites diverge. Since the Health Science program incorporates elective courses in their curriculum, we have suggested courses which will directly benefit that chosen graduate profession.

All Health Sciences majors take the following major requirements (40 credits):

In addition to all graduation requirements, the following courses must be completed successfully:

- BI101-102 Biology I and II (laboratory) 8 credits
- BI215 Biology and Health Sciences Seminar 3 credits
- BI235 Human Health and Nutrition 3 credits
- BI260 Human Anatomy & Physiology I 4 credits
- BI261 Human Anatomy & Physiology II 4 credits
- BI370 Medical Terminology and Health Systems 3 credits
- BI400 Kinesiology (laboratory) 4 credits or
- BI402 Exercise Physiology (laboratory) 4 credits
- BI460 Internship in Biology or
- BI480 Senior Seminar in Biology/Health Sciences or
- BI481 Invited Senior Research 3 credits
- CH101-102 General Chemistry I & II (laboratory) 8 credits

Health Sciences Electives

In addition to the major requirements, students must choose 20 elective credits with a minimum of 6 credits above the 300-level from the list below:

AN325 Medical Anthropology BI261 Anatomy & Physiology II (laboratory) BI302 Food Production BI310 Research Methods

BI325 Microbiology (laboratory) **BI326** Parasitology **BI327** Principles of Immunology **BI329 Special Topics** BI337 Advanced Nutrition BI351 Endocrinology BI353 Introduction to Pharmacology BI400 Kinesiology/Biomechanics (laboratory) BI402 Physiology of Exercise (laboratory) **BI403** Assessment and Prescription of Fitness BI404 Strength and Conditioning Science CH211 Organic Chemistry 1 CH212 Organic Chemistry 2 CH321 Biochemistry (laboratory) ES305 Health, Human Rights, and Environmental Justice HCA315 Epidemiology HCA340 Healthcare Finance HCA350 Healthcare Systems Management and Quality Improvement HCA360 Healthcare Ethics, Policy, and Law

HCA390 Internship HCA450 Leadership and Management in Healthcare Organizations PH101 Physics 1 PH102 Physics 2 PS304 Introduction to Neuroscience (laboratory) PS430 Introduction to Psychopharmacology PUBH303 Biostatistics PUBH310 Foundations of Environmental Health Sciences PUBH313 Psychological, Behavioral, and Social Issues in Public Health

Recommended Curriculum Guide - Health Sciences

First Year					
Fall Semester		Credits	Spring Semeste	er	Credits
BI101	Biology I (laboratory)	4	BI102	Biology II (laboratory)	4
	GLE Elective	3	MT260	Statistics	3
PS101	Intro to Psychology	3		GLE Elective	3
GLE101	First-Year Inquiry	3		GLE Elective	3
GLE110	First-Year Composition	3		GLE Elective	3
	Total	16		Total	16
Second Year			- I	l	<u>I</u>
Fall Semester		Credits	Spring Semeste	er	Credits
B235	Human Health and Nutrition	3	BI215	Biology and Health Sciences Seminar	3
BI260	Human Anatomy & Physiology I (Laboratory)	4	GLE230	Second-Year Composition	3
CH101	Chemistry I (laboratory)	4	CH102	Chemistry II (laboratory)	4
	GLE Elective	3	BI261	Human Anatomy & Physiology II (laboratory)	4
	Elective	3			
	Total	17		Total	14
Third Year					
Fall Semester		Credits	Spring Semeste	er	Credits
BI370	Medical Terminology and Health Systems	3		Health Sciences Elective	4
BI400 or 402	Kinesiology (laboratory) or	4		Health Sciences Elective	4

	Exercise Physiology				
	GLE Elective	3	BI460 or 480 or 481	Internship in Biology or Senior Seminar in Biology or Senior Seminar in Biology/ Health Sciences or Invited Senior Research	3
	Health Sciences Elective	4		Elective	3
	Total	14		Total	14
Fourth Year					
Fall Semester		Credits	Spring Semester		Credits
	Health Sciences Elective	4		Health Sciences Elective	4
	Health Sciences Elective	3		Elective	3
	Elective	3		GLE Elective	3
	Elective	3		Elective	3
	Elective	3		Total	13
	Total	16		Total Credits	120

Accelerated 3 Year Health Science Curriculum

First Year						
Fall Semester		Credits	Spring Semester		Credits	
BI101	Biology I (laboratory)	4	BI102	Biology II (laboratory)	4	
CH101	Chemistry I (laboratory)	4	MT260	Statistics	3	
PS101	Intro to Psychology	3	CH102	Chemistry II (laboratory)	4	
GLE101	First-Year Inquiry	3		GLE Elective	3	
GLE110	First-Year Composition	3		GLE Elective	3	
	Total	17		Total	17	
Second Year						
Summer Courses						

Fall Semester		Credits	Spring Semester		Credits
B235	Human Health and Nutrition	3	BI215	Biology and Health Sciences Seminar	3
BI260	Human Anatomy & Physiology I (Laboratory)	4	GLE230	Second-Year Composition	3
	Health Science Elective	4		Health Science Elective	4
	Elective	3	BI261	Human Anatomy &	4
				Physiology II (laboratory)	
	Elective	3		Elective	3
	Total	17		Total	17
Third Year			·		
Summer Course	s				
Fall Semester		Credits	Spring Semester		Credits
BI370	Medical Terminology and Health Systems	3		Health Sciences Elective	4
BI400 or 402	Kinesiology (laboratory) or Exercise Physiology	4		Health Sciences Elective	4
	Elective	3		Elective	3
	Health Sciences Elective	4		Elective	3
	Elective	3		Elective	3
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	Total	17		Total	16