

BHS in Health Science with Emphasis in Pre-Professional

Degree Program Description

The pre-professional emphasis in the health science major prepares students to apply for graduate and professional programs in medicine, dentistry, pharmacy, physician assistant studies, optometry and related areas. The pre-professional emphasis may also prepare students who have appropriate work experience as an undergraduate to work for clinical research companies, medical or pharmaceutical sales or other health careers that require a background in science and knowledge of health care.

The pre-professional emphasis area includes 20 hours of core required courses, professional emphasis requirements and required electives that complement the student's pathway. In addition, the health science program requires an internship that is appropriate for a student's career goals. Examples of internships for the pre-professional emphasis include Missouri Telehealth Network, MedZou Community Health Center, PhysAssist, and Scribe America.

Major Program Requirements

In addition University of Missouri requirements (<https://catalog.missouri.edu/academicdegreerequirements/universityrequirements/>), including University general education (<https://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements/>), and BHS in Health Science Core (<https://catalog.missouri.edu/collegeofhealthsciences/healthscience/bhs-health-science/>) requirements, students pursuing the Pre-Professional emphasis must complete the following requirements, each of which requires a grade of C- or higher.

Emphasis Requirements

ENGLISH 1000	Writing and Rhetoric	3
MATH 1100	College Algebra	3-5
or MATH 1160	Precalculus Mathematics	
BIO_SC 1500	Introduction to Biological Systems with Laboratory	5
or BIO_SC 1010 & BIO_SC 1020	General Principles and Concepts of Biology and General Biology Laboratory	
BIO_SC 2200	General Genetics	4
CHEM 1400 & CHEM 1401	College Chemistry I and College Chemistry I Laboratory	4
CHEM 1410 & CHEM 1411	College Chemistry II and College Chemistry II Laboratory	4
CHEM 2100	Organic Chemistry I	3
or CHEM 2030	Survey of Organic Chemistry	
MPP 3202	Elements of Physiology	5
or BIO_SC 3700	Human Physiology	
PHIL 2440	Medical Ethics	3
PHYSICS 1210	College Physics I	4
PSYCH 1000	General Psychology	3
PTH_AS 2201 & PTH_AS 2203	Human Anatomy Lecture and Human Anatomy Laboratory	5
STAT 1200	Introductory Statistical Reasoning	3
or STAT 1300	Elementary Statistics	

or STAT 2500	Introduction to Probability and Statistics I	
or ESC_PS 4170	Introduction to Applied Statistics	
Approved Person-Centered Care Course (choose one) *This requirement may overlap with the Health Science Electives requirement.		3
HLTH_SCI 2310	Perspectives on Disability	3
HLTH_SCI 2850	Inclusion and Equity in Health Care	3
HLTH_SCI 2900	Health Care In Missouri	3
HLTH_SCI 4400	Culture and Health Literacy for the Health Professions	3
HLTH_SCI 4410	Humanism and Health Literacy	3
P_HLTH 2050	Gender and Public Health	3
P_HLTH 4610	Race, Ethnicity, and Health: An Intersectional Examination of Health Inequalities	3
SOC_WK 4390	Helping Strategies With Children and Adolescents	3
SOC_WK 4395	Death, Grief and Loss	3
SOC_WK 4480	Direct Practice with Older Adults	3
Health Science Electives *		18

Students must complete 18 hours of approved elective coursework. At least 9 credit hours must be taken as 3000/4000 level courses. Transfer courses taken at the freshman-sophomore level and accepted as equivalent to a 3000/4000 level course at the University may not count towards the 9 hour upper-level Health Science Elective requirement for the Health Science degree.

* See Health Science Electives (<https://catalog.missouri.edu/electives/health-science/>) for a course list of electives that count towards this requirement.

Semester Plan

Below is a sample plan of study, semester by semester, for the Rehabilitation Sciences emphasis. A student's actual plan may vary based on course offerings, course choices where options are available, and a student's academic/career goals.

First Year			
Fall	CR	Spring	CR
BIO_SC 1500		5 BIO_SC 2200	4
HLTH_SCI 1000		3 CHEM 1400 & CHEM 1401	4
MATH 1100		3 ENGLISH 1000	3
PSYCH 1000		3 Humanities course	3
Elective		1 Elective	1
			15
15			
Second Year			
Fall	CR	Spring	CR
CHEM 1410 & CHEM 1411		4 CHEM 2100	3
HLTH_SCI 2400		3 HLTH_SCI 3700	3
STAT 1200		3 Writing Intensive course	3
HIST 1100, 1200, or POL_SC 1100		3 2000+ level Approved Health Science Elective	3
Elective		2 Elective	2
			15
14			

Third Year			
Fall	CR	Spring	CR
HLTH_SCI 3000		1 HLTH_SCI 4480	3
Person-Centered Care course		3 HLTH_SCI 4200W	3
PTH_AS 2201		3 MPP 3202	5
PTH_AS 2203		2 3000+ level Approved Health Science Elective	3
Elective		3 Elective	3
Humanities course		3	
		15	17

Fourth Year			
Fall	CR	Spring	CR
HLTH_SCI 4975		3 HLTH_SCI 4985	3
PHIL 2440		3 2000+ level Approved Health Science Elective	3
PHYSICS 1210		4 3000+ level Approved Health Science Elective	3
3000+ level Approved Health Science Elective		3 Elective	3
Elective		1 Elective	3
		14	15

Total Credits: 120