

Human Physiology, B.S.

Requirements

The Bachelor of Science with a major in human physiology requires a minimum of 120 s.h., including 62 s.h. of work for the major. Students must maintain a g.p.a. of at least 2.00 in all courses for the major and in all UI courses for the major. They also must complete the College of Liberal Arts and Sciences GE CLAS Core. Transfer students must complete a minimum of 16 s.h. in human physiology coursework at the University of Iowa, including HHP:3550 Human Physiology with Laboratory.

The major in human physiology is designed primarily for individuals who intend to continue their education beyond the B.S. in the health professions, including medicine, physician assistant, physical therapy, dentistry, occupational therapy, chiropractic, and optometry, and for those who intend to pursue graduate degrees in basic life sciences.

Students may earn a B.S. in human physiology or a B.A. in health and human physiology, but not both.

Students who earn a B.S. in human physiology may not earn the minor in human physiology.

The B.S. with a major in human physiology requires the following coursework.

Code	Title	Hours
	Human Physiology Courses	31
	Cognate Area Courses	31
Total Hours		62

Human Physiology Courses

Code	Title	Hours
All of these:		
HHP:2200	Physical Activity and Health	3
HHP:3115	Anatomy for Human Physiology with Lab	5
HHP:3550	Human Physiology with Laboratory	5
At least 18 s.h. from these, with at least 12 s.h. in HHP coursework:		
HHP:3230/PSY:3230	Psychopharmacology	3
HHP:3300	Human Growth and Motor Development	3
HHP:3450	Immunology in Health and Disease	3
HHP:3900	Writing for Health and Human Physiology	3
HHP:4110	Advanced Human Anatomy Laboratory	4
HHP:4130	Skeletal Muscle Physiology	3
HHP:4150	Clinical Exercise Physiology	3
HHP:4200	Metabolic Exercise Testing and Prescription	4
HHP:4210	Musculoskeletal Exercise Testing and Prescription	4

HHP:4220	Biomechanics of Human Motion	3
HHP:4250	Human Pathophysiology	3
HHP:4260	Respiratory Pathophysiology	3
HHP:4300	Sensorimotor Neurophysiology	3
HHP:4410	Exercise Physiology	3
HHP:4440	Physiology of Nutrition	3
HHP:4450	Human Genetics and Disease	3-4
HHP:4460	Cardiovascular Physiology	3
HHP:4465	Environmental Exercise Physiology	3
HHP:4470/ASP:4470	Physiology of Aging	3
HHP:4490	International Medicine: Experiential Learning	3
HHP:4500	Undergraduate Independent Study	arr.
HHP:4510	Energetics in Health and Disease	3
HHP:4900	Honors Research	3
BIOL:2254	Endocrinology	3
BIOL:2512	Fundamental Genetics	4
BIOL:2723	Cell Biology	3
BIOL:2753	Introduction to Neurobiology	3
BMB:3110	Biochemistry	3
MICR:2157	General Microbiology	3
MICR:2158	General Microbiology Laboratory	2
MICR:3168	Viruses and Human Disease	3
PCOL:3101	Pharmacology I: A Drug's Fantastic Journey	3
PCOL:3102	Pharmacology II: Mechanisms of Drug Action	3
SOC:3510	Medical Sociology	3
May include one of these:		
PSY:2130	Advanced Psychology for Pre-Medical Track	3
PSY:2930	Abnormal Psychology: Health Professions	3

Cognate Areas

Students must earn a minimum of 31 s.h. in cognate areas—subjects outside of human physiology—by completing courses from the following lists.

Code	Title	Hours
Biology		
This sequence:		
BIOL:1411- BIOL:1412	Foundations of Biology - Diversity of Form and Function	8
Chemistry		
This sequence:		
CHEM:1110 & CHEM:1120	Principles of Chemistry I-II	8
Mathematics		
One of these:		
MATH:1460	Calculus for the Biological Sciences	4

MATH:1550	Engineering Mathematics I: Single Variable Calculus	4
-----------	--	---

MATH:1850	Calculus I	4
-----------	------------	---

Physics

This sequence:

PHYS:1511- PHYS:1512	College Physics I-II	8
-------------------------	----------------------	---

Statistics

One of these:

STAT:2010	Statistical Methods and Computing	3
-----------	--------------------------------------	---

STAT:3510/ IGPI:3510	Biostatistics	3
-------------------------	---------------	---

STAT:4143/ PSQF:4143	Introduction to Statistical Methods	3
-------------------------	--	---