

# HEALTH SCIENCES MAJOR — B.S.

Students in health sciences are required to declare one of two concentrations.

1. The premedical concentration is designed to meet the curricular needs of students pursuing premedical graduate education.
2. The planned clinical concentration is designed for students planning to pursue post-baccalaureate education in health fields such as physician assistant, nursing, dietetics, chiropractic, veterinary, and dentistry.

## Summary

Code	Title	Credits
	Health Sciences B.S. Major Requirements	71-77
	Integrative Core Curriculum and Electives <sup>1</sup>	43-49
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> *This major is approved to fulfill the Integrative Core Curriculum (<https://catalog.ithaca.edu/undergrad/programsaz/integrative-core-curriculum/>) requirement for the Natural Sciences perspective.*

## Degree Requirements

Note: some required courses include a math placement score prerequisite. Check course prerequisites prior to registration.

Code	Title	Credits
<b>HEALTH COURSES</b>		
HLTH 10100	Introduction to Healthy Aging (Introduction to Healthy Aging)	3
HLTH 20200	Human Nutrition	3
HLTH 20500	Critical Health Issues	3
HLTH 21700	Epidemiological Approaches to Disease Prevention and Control	3
HLTH 22900	Human Disease	3
HLTH 31600	Health Research and Analysis	3
Select 3 credits of the following:		3
HLTH 349xx	Fieldwork in Health	
HLTH 453xx	Supervised Research	
HLTH 41700	Public Health Policy and Justice	3
HLTH 44400	Leadership and Health Promotion	2
<b>STATISTICS COURSE</b>		
MATH 14400	Statistics for Business, Economics and Management	3-4
	or MATH 1450C Statistics for the Health, Life, and Social Sciences	
	or MATH 1550C Basic Statistical Reasoning	
	or MATH 2160C Statistical Analysis	
<b>PSYCHOLOGY COURSE</b>		
PSYC 10300	General Psychology	3
	or PSYC 10400 Introduction to Developmental Psychology	
<b>SCIENCE COURSES</b>		
BIOL 11900	Fundamentals of Biology: Cells and Bodies	4

BIOL 12000	Fundamentals of Biology: Ecology and Evolution	4
CHEM 12100	Principles of Chemistry	3
CHEM 12200	Principles of Chemistry Laboratory	1
CHEM 23200	Quantitative Chemistry	3
CHEM 23300	Quantitative Chemistry Laboratory	1
EXSS 12000	Anatomy and Physiology I	4
EXSS 12100	Anatomy and Physiology II	4
<b>REQUIRED CONCENTRATION</b>		
Health Sciences majors must complete either the Premedical Concentration or the Planned Clinical Concentration; requirements are listed below.		15-20
<b>Total Credits</b>		<b>71-77</b>

## PREMEDICAL CONCENTRATION

Code	Title	Credits
CHEM 22100	Organic Chemistry I	3
CHEM 22200	Organic Chemistry II	3
CHEM 22300	Organic Chemistry I Laboratory	1
CHEM 22400	Organic Chemistry II Laboratory	1
Select one of the following Physics sequences:		8
PHYS 10100 & PHYS 10200	Introduction to Physics I and Introduction to Physics II	
PHYS 12200 & PHYS 12300	Momentum, Energy, and Heat and Classical Fields: Gravity, Electricity, & Magnetism <sup>1</sup>	
Select one of the following Math courses:		
MATH 10800	Applied Calculus	4
	or MATH 11100 Calculus I	
<b>Total Credits</b>		<b>20</b>

<sup>1</sup> *PHYS 12200: Requires MATH 11100 as prerequisite.*  
*PHYS 12300: Requires MATH 11200 as prerequisite.*

## PLANNED CLINICAL CONCENTRATION

For students who plan to pursue post-baccalaureate education in fields other than medical school or food and nutrition, such as nursing, chiropractic, physician assistant, veterinary, dentistry, optometry, and other careers. Students must submit their planned concentration proposal, including list of courses and stated goal, for approval by their advisor and the department chair. **Total required credits: 15**