

Houghton University

Biomedical Sciences BS

(23 hours in core; 8 prerequisite hours; 19 corequisite hours)

Total Major LA Credits: 0

Biomedical Sciences Major Requirements

Credits

Liberal Arts

Prerequisite Courses* (8 hours)

BIOL 151 General Biology: Organisms to Ecosystems
BIOL 152 General Biology: Cellular Biology and Genetics

4	LA
4	LA

Corequisite Courses (19 hours)

CHEM 151 General Chemistry I
CHEM 152 General Chemistry II
CHEM 241 Organic Chemistry I
CHEM 242 Organic Chemistry II
CHEM 332 Biochemistry 1

4	LA
4	LA
4	LA
4	LA
3	LA

Required Major Courses (11 hours)

BIOL 251 Genetics
BIOL 370 Molecular and Cell Biology
BIOL 482 Senior Capstone: Senior Seminar
STEM 371 Career Seminar

4	LA
4	LA
2	LA
1	

Biology Electives* (12 hours)

Degree Requirements

Earned a C- or above in each Major/Concentration/Minor credit	<input type="checkbox"/>
Minimum of 124 credit hours completed	
Minimum of 62 Liberal Arts credits	
At least 50% of major completed through Houghton	<input type="checkbox"/>
30 credit hours from Houghton	<input type="checkbox"/>
18 of the last 24 credit hours are from Houghton	<input type="checkbox"/>

Official degree and program requirements are housed in the Registrar's Office. This degree audit worksheet serves as an advising tool; it is not a contract, an academic transcript, or an official notification of completion of degree/program requirements. It is the student's responsibility to be aware of and understand the requirements of his/her degree program. If assistance is needed, students should consult their academic advisor and the University's academic catalog.

*Detailed Options

Prerequisite Requirement

Unless a grade of C- is earned in the lecture component of both BIOL 151 and BIOL 152, students must enroll concurrently in BIOL 151 or BIOL 152 if also enrolling in 200-level or higher biology courses.

Biology Elective Options

BIOL 217	Human Anatomy & Physiology I	4	LA
BIOL 218	Human Anatomy & Physiology II	4	LA
BIOL 242	Microbiology	4	LA
BIOL 342	Biotechnology	4	LA
BIOL 355	Introduction to Neurobiology	4	LA
BIOL 365	Immunology	4	LA
BIOL 372	Advanced Vertebrate Physiology	4	LA
BIOL 380	Pathogenic Microbes	4	LA
BIOL 393	Summer Research Experience	0-4	LA
BIOL 394	Research in Biology	4	LA
BIOL 395	Special Topics (as offered & approved)	4	LA

Additional Elective Options

Additional electives needed for some graduate programs – consult advisor

MATH 181 Calculus I (4 LA) *or* MATH 170/171 (4 LA, 4 LA) Calculus I with Precalculus A and B

PHYS 151	General Physics I	4	LA
PHYS 152	General Physics II	4	LA
CHEM 287	Medicinal Chemistry	2	LA