

BIOLOGY

Plan of Study

Below is a *sample plan* of study that illustrates one way to achieve the program requirements. Any given student's plan of study may differ based on a variety of factors (e.g., advanced credit, placement exams, adding a minor). Enrolled students will work with their academic advisor; utilize the degree audit/planner to create a specific plan of study.

Course	Title	Hours
Freshman		
Fall		
BIO 130	Evolution & Diversity	4
MA 111	Calculus I	5
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Lab	1
RHIT 100	Foundations for Rose-Hulman Success	1
Hours		14
Winter		
BIO 110	Cell Structure and Function	4
MA 112	Calculus II	5
CHEM 113	General Chemistry II	3
CHEM 113L	General Chemistry II Laboratory	1
HUM H190	First-Year Writing Seminar	4
Hours		17
Spring		
BIO 120	Comparative Anatomy & Physiology	4
CSSE 120	Introduction to Software Development	4
MA 113	Calculus III	5
HSSA Elective		4
Hours		17
Sophomore		
Fall		
BIO 210	Mendelian & Molecular Genetics	4
CHEM 251	Organic Chemistry I	3
CHEM 251L	Organic Chemistry I Laboratory	1
PH 111	Physics I	4
PH 111L	Physics I Lab	0
MA 223	Engineering Statistics	4
Hours		16
Winter		
BIO 220	Microbiology	4
CHEM 252	Organic Chemistry II	3
CHEM 252L	Organic Chemistry II Laboratory	1
PH 112	Physics II	4
PH 112L	Physics II Lab	0
ENGL H290	Technical & Professional Communication	4
Hours		16
Spring		
BIO 230	Cell Biology	4
CHEM 330	Biochemistry I	4
Math Elective		4
HSSA Elective		4
Hours		16
Junior		
Fall		
BIO 320	Ecology	4
BIO Elective		4
HSSA Elective		4

BIO 399	Practice of Science	4
Hours		16
Winter		
BIO 330	Evolutionary Biology	4
BIO 496	Senior Thesis Research I	2
CHEM 331	Biochemistry II	4
Math Elective		4
Hours		14
Spring		
BIO 310	Plant Structure & Function	4
BIO 497	Senior Thesis Research II	4
PHIL H201	Bioethics	4
HSSA Elective		4
Hours		16
Senior		
Fall		
BIO 498	Senior Thesis Research III	4
Science/Technical Elective		4
Science/Technical Elective		4
Free Elective		4
Hours		16
Winter		
BIO 499	Senior Thesis Research IV	2
Science/Technical Elective		4
BIO Elective		4
HSSA Elective		4
Hours		14
Spring		
BIO Elective		4
Science/Technical Elective		4
HSSA Elective		4
HSSA Elective		4
Hours		16
Total Hours		188

Notes

A biology Science/Technical Elective is any Rose-Hulman course that does not have an HSSA Department course prefix or have the prefix AS, MS, or GRAD. At least two of these courses must be 300-level or above.

A BIO Elective is any Rose-Hulman course with a BIO prefix at 400-level or above or the following three BE courses: BE 314 Musculoskeletal Systems Physiology with Applications, BE 324 Neural and Endocrine Systems Physiology with Applications, and BE 334 Cardiovascular, Respiratory, and Renal Systems Physiology with Applications.