

BIOLOGY, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN PRE-HEALTH PROFESSIONS / PRE-OSTEOPATHY (LECOM) (4+4)

RECOMMENDED FOUR-YEAR PLAN

Course	Title	Hours
First Year		
Fall		
BIOL 113	Biology I: Foundations of Ecology, Evolution and Diversity with Lab	4
CHEM 107	General Chemistry I	3
CHEM 111	General Chemistry I Lab	1
ENGL 102	Critical Writing	3
ESAP 101	FYRST Seminar ¹	1
SUBJ 139	Foundations of Academic Discovery *	3
Hours		15
Spring		
BIOL 114	Biology II: Foundations of Molecules, Genes and Cells with Lab	4
CHEM 108	General Chemistry II	3
CHEM 112	General Chemistry II Lab	1
ENGL 104	Critical Reading	3
Creative & Aesthetic Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
Hours		14
Second Year		
Fall		
BIOL 250	Genetics with Lab	4
CHEM 201	Organic Chemistry I	3
CHEM 211	Organic Chemistry Laboratory I	1
Select one of the following:		3
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLS 235	Civil Discourse and Democracy	
Humanities Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)		3
Declare a Thematic Thread ²		
Hours		14
Spring		
Select one 200-level Core Course:		4
CHEM 202	Organic Chemistry II	
CHEM 212	Organic Chemistry Laboratory II	
BIOL 3XX/4XX	300/400 Biology Elective	
BIOL 325	Biostatistics and Experimental Design with Lab	3
Social Science Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3

Thematic Thread Requirement (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
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Hours		16
Third Year		
Fall		
BIOL 209	Human Anatomy and Physiology I	4
Select one of the following:		3
CHEM 335 or CHEM 301	Biochemistry I or Physical Chemistry 1	
BIOL 3XX/4XX	Upper Level Biology Elective	
BIOL 300+	Upper Level BIOL Elective	3
Thematic Thread Requirement (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
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Hours		16
Spring		
BIOL 309	Human Anatomy and Physiology II	4
BIOL 330	Microbiology/Lab	3
MATH 225 or MATH 125	Calculus I or Precalculus	4
Elective with DEI attribute		3
Hours		14
Fourth Year		
Fall		
PHYS 201 or PHYS 216	Elements of Physics I with Lab or University Physics 1 with Lab	4
BIOL 401	Ecology with Lab	3
BIOL 300+	Upper Level BIOL Elective	3
Elective		4
Hours		14
Spring		
PHYS 202 or PHYS 217	Elements of Physics II/ Lab or University Physics 2 with Lab	4
BIOL 335	Cell Biology	3
BIOL 490	Independent Study	3
Elective		3
Elective		4
Hours		17
Total Hours**		120

¹ Students are encouraged to take ESAP 101 as a Free Elective.
² Work with your Academic Adviser to declare a Thematic Thread by the end of your fall semester in your second year.
 * Course offered in multiple subjects; cannot take course in first major subject.

** This document is meant to serve as a guide. Some planners may show more than 120 credits because faculty have created flexibility in choosing courses. However, only 120 credits are required to obtain a degree. Please consult with your academic adviser and refer to your curriculum guide prior to

registering for courses. This plan should be reviewed, and verified, by you and your academic adviser at least once each academic year.

Major/Concentration: 6018/PHLT

2nd Major: 61LO

Revised: 06.02.2023