

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

## RECOMMENDED FOUR-YEAR PLAN

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
ENGL 102	Critical Writing	3
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
SUBJ 139	Foundations of Academic Discovery *	3
ESAP 101	FYRST Seminar <sup>1</sup>	1
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENGL 104	Critical Reading	3
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
Creative & Aesthetic Inquiry ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/</a> )		3
<b>Hours</b>		<b>14</b>
<b>Second Year</b>		
<b>Fall</b>		
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	
Declare a Thematic Thread <sup>2</sup>		
Humanities Inquiry ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/</a> )		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
Select one of the following:		3-4
CHEM 202	Organic Chemistry II	
or CHEM 212	or Organic Chemistry Laboratory II	
BIOL 300+	Upper Level BIOL Elective	
BIOL 325	Biostatistics and Experimental Design with Lab	3
Social Science Inquiry ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/</a> )		3

Thematic Thread Requirement ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/</a> )	3
Thematic Thread Requirement ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/</a> )	3

**Hours** 15-16

### Third Year

#### Fall

Select one of the following: 3

CHEM 335 Biochemistry I  
or CHEM 301 or Physical Chemistry 1

BIOL 300+ Upper Level BIOL Elective

BIOL 209 Human Anatomy and Physiology I 4

BIOL 300+ Upper Level BIOL Elective 3

Thematic Thread Requirement (<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

**Hours** 16

#### Spring

BIOL 309 Human Anatomy and Physiology II 4

BIOL 330 Microbiology/Lab 3

MATH 225 Calculus I 4

or MATH 125 or Precalculus

Elective with DEI attribute 3

**Hours** 14

### Fourth Year

#### Fall

PHYS 201 Elements of Physics I with Lab 4  
or PHYS 216 or University Physics 1 with Lab

BIOL 401 Ecology with Lab 3

BIOL 300+ Upper Level BIOL Elective 3

Elective 4

**Hours** 14

#### Spring

PHYS 202 Elements of Physics II/ Lab 4  
or PHYS 217 or University Physics 2 with Lab

BIOL 335 Cell Biology 3

BIOL 490 Independent Study 3

Elective 4

Elective 4

**Hours** 18

**Total Hours\*\*** 120-121

\* Course offered in multiple subjects; cannot take course in first major subject

<sup>1</sup> Students are encouraged to take ESAP 101 as a Free Elective.

<sup>2</sup> Work with your Academic Adviser to declare a Thematic Thread by the end of your fall semester in your second year.

\*\* 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: 6108/PHLT

2nd Major: 61LD

Revised: 06.02.2023