

# BIOLOGY, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN INTEGRATIVE BIOLOGY

## 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
ESAP 101	FIRST Seminar *	1
SUBJ 139	Foundations of Academic Discovery <sup>1</sup>	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENGL 104	Critical Reading	3
CHEM 108	General Chemistry II	3
CHEM 112	General Chemistry II Lab	1
BIOL 114	Biology II: Foundations of Molecules, Genes and Cells with Lab	4
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>		
Select one of the following:		3
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLS 235	Civil Discourse and Democracy	
BIOL 250	Genetics with Lab	4
CHEM 201	Organic Chemistry I	3
CHEM 211	Organic Chemistry Laboratory I	1
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
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
Declare a Thematic Thread <sup>2</sup>		
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
Select one of the following:		3-4
CHEM 202 & CHEM 212	Organic Chemistry II and Organic Chemistry Laboratory II	
BIOL 300+	Upper Level BIOL Elective	
BIOL 325	Biostatistics and Experimental Design with Lab	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
<b>Hours</b>		<b>12-13</b>
<b>Third Year</b>		
<b>Fall</b>		
Select one of the following:		3
CHEM 335 or CHEM 301	Biochemistry I or Physical Chemistry 1	
BIOL 300+	Upper Level BIOL Elective	
BIOL 310	Plant Diversity with Lab	3
BIOL 300+	Upper Level BIOL Elective	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
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
BIOL 312	Zoology with Lab	3
BIOL 330	Microbiology/Lab	3
MATH 225 or MATH 125	Calculus I or Precalculus	4
Elective with DEI attribute		3
Elective		3
<b>Hours</b>		<b>16</b>
<b>Fourth Year</b>		
<b>Fall</b>		
BIOL 401	Ecology with Lab	3
PHYS 201 or PHYS 216	Elements of Physics I with Lab or University Physics 1 with Lab	4
BIOL 300+	Upper Level BIOL Elective	3
BIOL 300+	Upper Level BIOL Elective	3
Elective		3-4
<b>Hours</b>		<b>16-17</b>
<b>Spring</b>		
BIOL 335	Cell Biology	3
BIOL 450	Biology Internship	3
BIOL 490	Independent Study <sup>4</sup>	3
PHYS 202 or PHYS 217	Elements of Physics II/ Lab or University Physics 2 with Lab	4
<b>Hours</b>		<b>13</b>
<b>Total Hours**</b>		<b>118-120</b>

<sup>1</sup> Course offered in multiple subjects; cannot take course in first major subject.

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

\* Students are encouraged to take ESAP 101 as a Free Elective.

\*\* 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/INBI

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