

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

## Recommended Four-Year Plan

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
ENGL 102	Critical Writing	3
BIOL 104		4
CHEM 107	General Chemistry I	3
CHEM 111	General Chemistry I Lab	1
SUBJ 139	Foundations of Academic Discovery <sup>1</sup>	3
ESAP 101	FYRST Seminar *	1
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENGL 104	Critical Reading	3
Select one 200-level Core Course:		4
BIOL 201	General Botany with Lab	
BIOL 212	General Zoology with Lab	
BIOL 250	Genetics with Lab	
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-quick-guide/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/</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	
Select one 200-level Core Course:		4
BIOL 201	General Botany with Lab	
BIOL 212	General Zoology with Lab	
BIOL 250	Genetics with Lab	
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-quick-guide/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/</a> )		3
Social Science Inquiry ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/</a> )		3
Declare a Thematic Thread <sup>2</sup>		
<b>Hours</b>		<b>17</b>

<b>Spring</b>		
Select one 200-level Core Course:		4
BIOL 201	General Botany with Lab	
BIOL 212	General Zoology with Lab	
BIOL 250	Genetics with Lab	
CHEM 202	Organic Chemistry II	3
CHEM 212	Organic Chemistry Laboratory II	1
Thematic Thread Requirement ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/</a> )		3
Thematic Thread Requirement ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/</a> )		3
<b>Hours</b>		<b>14</b>

<b>Third Year</b>		
<b>Fall</b>		
CHEM 335 or CHEM 301	Biochemistry I or Physical Chemistry 1	3
BIOL 300+	Upper Level BIOL Elective	3
BIOL 300+	Upper Level BIOL Elective	3
Thematic Thread Requirement ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/</a> )		3
Thematic Thread Requirement ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/</a> )		3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
MATH 225	Calculus I	4
BIOL 300+	Upper Level BIOL Elective	3
BIOL 300+	Upper Level BIOL Elective	3
Free Elective		3
Free Elective		2
<b>Hours</b>		<b>15</b>

<b>Fourth Year</b>		
<b>Fall</b>		
PHYS 211	General Physics I with Lab	4
BIOL 300+	Upper Level BIOL Elective	3
BIOL 300+	Upper Level BIOL Elective	3
Free Elective		3
Free Elective		3
<b>Hours</b>		<b>16</b>

<b>Spring</b>		
Free Elective		3
PHYS 213	General Physics III/ Lab <sup>3</sup>	4
BIOL 300+	Upper Level BIOL Elective	3
BIOL 490	Independent Study <sup>4</sup>	3
BIOL 492	Biology Seminar	1
<b>Hours</b>		<b>14</b>
<b>Total Hours**</b>		<b>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.

<sup>3</sup> or BIOL 300/400 level (except BIOL 300, BIOL 314, BIOL 315, BIOL 316, BIOL 319, or BIOL 345).

<sup>4</sup> or BIOL 300+:Upper Level BIOL Elective

\* 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 Code: 6108

Concentration Code: PRFL

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