

BIOLOGY, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN INTEGRATIVE BIOLOGY / PRE-MASTER OF EDUCATION (7-12)

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	FIRST Seminar *	1
SUBJ 139	Foundations of Academic Discovery ¹	3
Hours		15
Spring		
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 (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
Hours		14
Second Year		
Fall		
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 (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
Social Science Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
Hours		17
Spring		
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
SPED 121	Overview of Special Education	3
Thematic Thread Requirement (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
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Hours		15-16
Third Year		
Fall		
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 410	Animal Physiology with Lab	3
Thematic Thread Requirement (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
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Hours		15
Spring		
BIOL 330	Microbiology/Lab	3
BIOL 312	Zoology with Lab	3
MATH 125	Precalculus	4
Elective with DEI attribute		3
SEFE 338	Standards-Based Instruction & Assessment in the Inclusionary Classroom	3
Hours		16
Fourth Year		
Fall		
BIOL 370	Molecular Biology	3
BIOL 401	Ecology with Lab	3
MATH 225	Calculus I	4
PHYS 201 or PHYS 216	Elements of Physics I with Lab or University Physics 1 with Lab	4
Hours		14
Spring		
PHYS 202 or PHYS 217	Elements of Physics II/ Lab or University Physics 2 with Lab	4
BIOL 300+	Upper Level BIOL Elective	3
BIOL 300+	Upper Level BIOL Elective	3
BIOL 490	Independent Study	3
BIOL 450	Biology Internship	3
Hours		16
Total Hours**		122-123

¹ Course offered in multiple subjects; cannot take course in first major subject.

* 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

Concentration Code: PX

Revised date: 05.19.2023