

BIOLOGY, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN PROFESSIONAL / PRE-PHYSICIAN ASSISTANT (SRU) (3+2) - ROCK STUDIES

Biology Program Learning Outcomes

- **Critical Thinking/Problem Solving:** Respective program graduates should demonstrate synthetic, analytical, and interpretive skills.
- **Knowledge/Content:** Graduates should demonstrate that they are founded in the discipline at the molecular, cellular, organismal, population, community, and ecosystem levels and that they have a fundamental understanding of chemistry, physics, and mathematics.
- **Practical Skills:** Graduates will demonstrate proficiency in laboratory related skills.
- **Communication Skills:** Respective program graduates should demonstrate strong oral, digital, and written communication skills.
- **Professional Attitude:** Graduates demonstrate professional attitude, behavior, and ability to interact with people from diverse backgrounds and cultures.
- **Degree Program Writing Competency:** Graduates will demonstrate proficiency in writing based on longitudinal data as opposed to point in time data.

What are your options?

Pre-Physician Assistant SRU 3+2: Earn a Master of Science degree in Physician Assistant Studies in five years rather than six. In the first three years, you complete your \major courses and pre-requisites for the SRU PA program. At the end of your second year, you apply for admission into the SRU PA program. If accepted, your first year in the SRU PA program meets the remaining requirements for your undergraduate degree. If not accepted, you continue to complete your undergraduate degree and can reapply to the program. The accelerated option is for incoming freshmen only.

Pre-Physician Assistant (SRU Traditional): Complete the requirements for your major and the pre-requisites for the SRU PA program and apply to the SRU PA program in your senior year.

Related Links

Biology - Pre-Physician Assistant, BS Program Pag (<https://www.sru.edu/academics/majors-and-minors/biology-pre-physician-assistant/>)e

Biology Department Page (<https://www.sru.edu/academics/colleges-and-departments/ches/departments/biology/>)

Professional Licensure/Certification Page (<http://www.sru.edu/Documents/offices/PRMA/PLC.pdf>)

If you are a Liberal Studies student, please click here (<https://catalog.sru.edu/undergraduate/health-engineering-sciences/biology/>)

[biology-bs-concentration-professional-pre-physician-assistant-liberal/#curriculumguidetext](#)) for your Curriculum Guide.

Curriculum Guide

GPA Requirement

1st Major: Biology

- Overall GPA: 2.00 or higher
- Major GPA (only includes Biology courses): 2.00 or higher

2nd Major: Pre-PA SRU 3+2 Biology

- Overall GPA: 3.25 or higher

Summary*

Code	Title	Hours
	Rock Studies Requirements	45
	Other Basic Requirements	0-3
	Computer Competency	0-3
	Major Requirements	41
	Natural Science and Math College-Wide Requirements	12
	Electives	33

* All undergraduate degree programs require a minimum of 120 credits. Some courses meet multiple requirements, but are only counted once toward the 120 credit total required to graduate. However, because this is a pre-professional program, credits taken during the 1st year of the graduate program are applied toward the undergraduate credit hours to meet the 120 credits required for your undergraduate degree.

Rock Studies Requirements

Code	Title	Hours
The Rock		
SUBJ 139	University Seminar ¹	3
ENGL 102	Critical Writing	3
ENGL 104	Critical Reading	3
MATH 225	Calculus I	4
Select one of the following:		
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLS 235	Civil Discourse and Democracy	
Subtotal		16
Integrated Inquiry		
<i>Creative and Aesthetic Inquiry</i>		
Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)		3
<i>Humanities Inquiry</i>		
Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)		3
<i>Social Science Inquiry</i>		
PSYC 105	Introduction to Psychology	3
<i>Natural Sciences Inquiry</i>		
CHEM 107	General Chemistry I	3
CHEM 111	General Chemistry I Lab	1
<i>Physical Sciences Inquiry</i>		
PHYS 211	General Physics I with Lab	4

Subtotal	17
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Thematic Thread

Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/) ²	12
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Total Hours	45
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¹ Course offered in multiple subjects; cannot take course in first major subject

² From at least 3 categories; no more than 6 credits from one department; 6 credits must be 300-level or above.

Basic Math Requirement

Check with your adviser or a current degree audit report to see if you have been exempted from this course. The credit earned in this course will not be counted toward the 120 credit hour minimum needed to earn a degree.

Code	Title	Hours
Complete one of the following:		0-3
Meet required minimum SAT or ACT math score OR		
ACSD 110	Beginning Algebra	
Total Hours		0-3

Computer Competency

Code	Title	Hours
Demonstrate "computer competency" by one of the following:		0-3
Pass Computer Competency Exam OR		
Select one of the following at SRU or another post-secondary institution:		
CPSC 100	Introduction to Computing for Liberal Arts	
CPSC 110	Computer Concepts	
CPSC 130	Introduction to Computing and Programming	
PE 202	Technology for Wellness	
Total Hours		0-3

Major Requirements

- Students desiring a Biology Major must maintain at least a 2.000 average in Biology.
- Before progressing to a 200-level course, students must achieve a 2.000 average in Principles of Biology - BIOL 104.
- Students may register in 200-level courses in any order, but must maintain a Biology average of 2.000 or better and must complete the 200 core sequence before progressing to 300 and 400-level courses in the major.
- A student must repeat any 200-level course that brings the Biology average below a 2.000.
- Students should complete all 200-level Biology requirements by the end of their sophomore year.
- If you choose to pursue Pre-Physician Assistant SRU 3+2 Biology and are not accepted into the PA program, then additional coursework is required to complete a first major of Biology-Professional. Please refer to the Biology-Professional Curriculum Guide.
- If you have questions about Financial Aid, visit their website (<https://www.sru.edu/admissions/financial-aid/>).
- To view the SRU policy on senior undergraduate students earning graduate credit, click here (<https://catalog.sru.edu/undergraduate/>

academic-policies/senior-undergraduate-students-earning-graduate-credit/).

Code	Title	Hours
Biology Core Requirements		
BIOL 104	Principles of Biology with Lab	4
BIOL 201	General Botany with Lab	4
BIOL 212	General Zoology with Lab	4
BIOL 250	Genetics with Lab	4
Subtotal		16
Required Upper-Level Biology		
BIOL 325	Biometry with Lab	3
BIOL 330	Microbiology/Lab	3
BIOL 492	Biology Seminar	1
Subtotal		7
Upper Division Elective Courses		
Select two of the following:		6
BIOL 335	Cell Biology/Lab	
BIOL 340	Vertebrate Anatomy with Lab	
BIOL 370	Molecular Biology with Lab	
BIOL 410	Animal Physiology with Lab	
Subtotal		6
Required Courses from other Departments		
CHEM 108	General Chemistry II	3
CHEM 112	General Chemistry II Lab	1
CHEM 201	Organic Chemistry I	3
CHEM 202	Organic Chemistry II	3
CHEM 211	Organic Chemistry Laboratory I	1
CHEM 212	Organic Chemistry Laboratory II	1
Subtotal		12
Major Field Test		
Field Test required of all Biology students before graduation		
Total Hours		41

* Some courses may require pre-requisites. Please see course descriptions to determine if there are any pre-requisites for that specific course.

Natural Science and Math College-Wide Requirements

Code	Title	Hours
CHEM 107	General Chemistry I	3
CHEM 111	General Chemistry I Lab	1
MATH 225	Calculus I	4
PHYS 211	General Physics I with Lab	4

Additional Physician Assistant Prerequisite Course

Code	Title	Hours
BIOL 216	Anatomy and Physiology I with Lab	3
BIOL 217	Anatomy and Physiology II with Lab	3
ERS 250	Medical Terminology	3
or HCAM 250	Medical Terminology for Healthcare Administrators	

Co-curricular and Experiential Learning

Students are encouraged to explore additional curricular and co-curricular opportunities. There is a strong correlation between long-term student success and participation in the following types of programs and activities:

1. Volunteering
2. Job Shadowing

Physician Assistant Studies (Master of Science in Physician Assistant Studies) Prerequisite Admission Requirements – Pre-Physician Assistant 3+2

For Application Requirements

Please refer to Slippery Rock University's Physician Assistant Studies (Master of Science in Physician Assistant Studies) website for requirements: <http://www.sru.edu/pa> (<http://www.sru.edu/pa/>)

Liberal Studies and Rock Studies

Code	Title	Hours
Prerequisite Courses - SRU Physician Assistant		
BIOL 104	Principles of Biology with Lab	4
BIOL 216	Anatomy and Physiology I with Lab	3
BIOL 217	Anatomy and Physiology II with Lab	3
BIOL 250	Genetics with Lab	4
BIOL 210	Medical Microbiology with Lab	3
or BIOL 330	Microbiology/Lab	
CHEM 107 & CHEM 111	General Chemistry I and General Chemistry I Lab	4
CHEM 108 & CHEM 112	General Chemistry II and General Chemistry II Lab	4
CHEM 201	Organic Chemistry I	3
Inferential Statistics Course ¹		3
PSYC 105	Introduction to Psychology	3
ERS 250	Medical Terminology	3
or HCAM 250	Medical Terminology for Healthcare Administrators	
Total Hours		37

¹ Any statistics course with inferential statistics embedded. See My Rock Audit for specific courses.

Pre-Physician Assistant SRU 3+2 Requirements

If any of these requirements are not met, the 3+2 designation will be removed from the student's record:

1. A 3.25 or higher overall GPA must be maintained by the student.
2. The student can only be enrolled in the Pre-Physician Assistant SRU 3+2 program for a maximum of three (3) years, full-time continuous enrollment (fall/spring).

Provision

Should a Pre-Physician Assistant SRU 3+2 student be unsuccessful in completing the 1st two semesters (summer or fall) of the Physician Assistant Program and wants to complete the original undergraduate degree, it is solely up to the discretion of the undergraduate program Department Chair to determine which, if any, Physician Assistant courses will count toward the completion of his/her undergraduate degree. In addition, students must complete any unfulfilled requirements of their

undergraduate major. Students may still apply to the Physician Assistant Studies Program with an earned Bachelor's degree.

BIOLOGY - BS (6108)

PRE-PA SRU 3+2 (6SPB)

This program is effective as of Fall 2019.

Revised 10-2019

UCC 2/5/2019

Important Curriculum Guide Notes

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisers to ensure accurate progress towards degree completion. *The information on this guide is current as of the date listed. Students are responsible for curriculum requirements at the time of enrollment at the University.*

PASSHE - Pennsylvania State System of Higher Education Institutions

Recommended Rock Studies Three-Year Plan

Course	Title	Hours
First Year		
Fall		
ENGL 102	Critical Writing	3
BIOL 104	Principles of Biology with Lab	4
CHEM 107	General Chemistry I	3
CHEM 111	General Chemistry I Lab	1
SUBJ 139	University Seminar ¹	3
INDS 101	FYRST Seminar	1
Hours		15
Spring		
ENGL 104	Critical Reading	3
200-level Core Course ²		4
CHEM 108	General Chemistry II	3
CHEM 112	General Chemistry II Lab	1
Creative and Aesthetic Inquiry		3
Humanities Inquiry		3
Hours		17
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	
PSYC 105	Introduction to Psychology	3
Thematic Thread (#1)		3
200-level Core Course ²		4
CHEM 201	Organic Chemistry I	3
CHEM 211	Organic Chemistry Laboratory I	1
Hours		17

Spring

Thematic Thread (#2)		3
Thematic Thread (#3)		3
200-level Core Course ²		4
CHEM 202	Organic Chemistry II	3
CHEM 212	Organic Chemistry Laboratory II	1
Hours		14

Third Year**Fall**

Thematic Thread (#4)		3
BIOL 216	Anatomy and Physiology I with Lab	3
BIOL 300+	Upper Level BIOL Elective	3
BIOL 300+	Upper Level BIOL Elective	3
BIOL 492	Biology Seminar	1
MATH 225	Calculus I	4
Hours		17

Spring

BIOL 217	Anatomy and Physiology II with Lab	3
BIOL 325	Biometry with Lab	3
BIOL 330	Microbiology/Lab	3
ERS 250 or HCAM 250	Medical Terminology or Medical Terminology for Healthcare Administrators	3
PHYS 211	General Physics I with Lab	4
Hours		16

Fourth Year**Fall**

PA Program Didactic		
Hours		0

Spring

PA Program Didactic		
Hours		0

Total Hours**		96
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¹ Course offered in multiple subjects; cannot take course in first major subject.

² BIOL 201, BIOL 212 or BIOL 250

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

Major Code: 6108

Concentration Code: 6SPB

Revised Date: 9-2019

**** 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.**