

PSYCHOLOGY, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN NEUROSCIENCE

Curriculum Guide

GPA Requirement

Major GPA: 2.0 or higher

Overall GPA: 2.0 or higher

Summary*

Code	Title	Hours
	Rock Studies 2 Requirements	44
	Other Basic Requirements	0-3
	Computer Competency	0-3
	Major/Concentration Requirements	56-57
	Electives	20

* 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.

Rock Studies 2 Requirements

Code	Title	Hours
The Rock		
SUBJ 139	Foundations of Academic Discovery ¹	3
ENGL 102	Critical Writing	3
ENGL 104	Critical Reading	3
STAT 152	Elementary Statistics I	3
Select one of the following:		3
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLS 235	Civil Discourse and Democracy	
Subtotal		15

Integrated Inquiry

Creative and Aesthetic Inquiry

Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)	3
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Humanities Inquiry

Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)	3
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Social Science Inquiry

Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)	3
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Physical & Natural Sciences Inquiry

BIOL 104		4
CHEM 107 & CHEM 111	General Chemistry I and General Chemistry I Lab	4
Subtotal		17

Thematic Thread

Select 12 Credits (<https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/>) ² 12

Total Hours 44

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

² One course from each category; six credits must be 300-level or above; no more than 4 credits from one subject area; specific courses required in first major, regardless of prefix of course, cannot be used to satisfy thread requirements; any course with same prefix as first major cannot be used to satisfy thread requirements, even if it is not a course in the first major.

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		
ESAP 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

DIVERSITY, EQUITY, AND INCLUSION REQUIREMENT

Students must take and pass a course with the Diversity, Equity, and Inclusion (DEI) designation prior to graduation. Students can meet this requirement by taking any DEI - designated course in any program at any time during their undergraduate career.

Major/Concentration Requirements

- 28 major credits must be taken at SRU or PASSHE
- 28 major credits must be taken at the 300 level or above
- Overall, 48 credit hours must be completed at the 300 or 400 level
- Students who do not meet minimum standards will be dismissed from the program. All dismissals are permanent.

Code	Title	Hours
Goal 1: Scientific Literacy & Foundations ¹		
Must earn a grade of 'C' or higher in PSYC 105, PSYC 231, and PSYC 232.		
Must earn a grade of 'B' or higher in PSYC 311.		
PSYC 105	Introduction to Psychology	3

PSYC 231	Psychological Science I: Research Methods	3
PSYC 232	Psychological Science II: Statistical Applications	3
PSYC 311	Introduction to Behavioral Neuroscience	4
Subtotal		13

Goal 2: Depth of Knowledge & Making Connections¹*Core Courses*

PSYC 244	Developmental Psychology	3
PSYC 276	Introduction to Abnormal Psychology	3

Neuroscience Content Courses (select two courses) 6-7

PSYC 233	Sensation & Perception	
PSYC 303	Learning	
PSYC 321	Drugs and Behavior	
PSYC 334	Health Psychology	
PSYC 338	Cognitive Psychology	

Interdisciplinary Core Courses

BIOL 250	Genetics with Lab	4
CHEM 201	Organic Chemistry I	3
Subtotal		19-20

Goal 3: Depth of Knowledge, Technical Expertise & Research¹*Neuroscience Content Courses (select three courses)* 9

PSYC 471	Psychopharmacology	
PSYC 473	Hormones and Behavior	
PSYC 476	Clinical Neuroscience	
PSYC 477	Developmental Neuroscience	

Research Capstone

Students must register for two semesters

PSYC 451	Research Capstone Internship	6
PSYC 451	Research Capstone Internship	6

Interdisciplinary Electives

Select one of the following: 3

BIOL 330	Microbiology/Lab	
BIOL 335	Cell Biology/Lab	
BIOL 370	Molecular Biology with Lab	

Subtotal 24**Total Hours** 56-57¹ Courses count for 50% of Major requirements and Major GPA

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

Electives

Code	Title	Hours
CHEM 108 & CHEM 112	General Chemistry II and General Chemistry II Lab	4
STAT 252	Introduction to Statistical Modeling	3
PSYC 355	Topical Seminar in Neuroscience	1

Writing Competency Requirements

Code	Title	Hours
Writing in Psychology #1		
Writing in Psychology #2		

Writing in Psychology #3

Professional Competencies Paper

Elective Recommendations based on Student Goals

Students can choose from many of the following recommended electives to fulfill their requirements for the interdisciplinary elective for the neuroscience concentration and/or for their remaining credits after meeting their rock studies 2 and major requirements.

Recommended Electives for Psychology (Biology Concentration)

Code	Title	Hours
BIOL 216	Anatomy and Physiology I with Lab	3
BIOL 217	Anatomy and Physiology II with Lab	3
BIOL 340	Vertebrate Anatomy with Lab ¹	3
BIOL 330	Microbiology/Lab ²	3
BIOL 335	Cell Biology/Lab ²	3
BIOL 325	Biometry with Lab	3
BIOL 370	Molecular Biology with Lab	3
BIOL 410	Animal Physiology with Lab ³	3
BIOL 470	Histology with Lab ⁴	3

¹ additional pre-requisite BIOL 212 General Zoology/Lab² additional pre-requisite CHEM 201 Organic General Chemistry I³ additional pre-requisites include BIOL 212 General Zoology/Lab & CHEM 201 Organic Chemistry I⁴ additional pre-requisite includes BIOL 212 General Zoology/Lab**Recommended Electives for Psychology (Chemistry Concentration)**

Code	Title	Hours
CHEM 201 & CHEM 211	Organic Chemistry I and Organic Chemistry Laboratory I	4
CHEM 202 & CHEM 212	Organic Chemistry II and Organic Chemistry Laboratory II	4
CHEM 335 & CHEM 336	Biochemistry I and Biochemistry Laboratory I	4
CHEM 337 & CHEM 338	Biochemistry II and Biochemistry Laboratory II	4

Recommended Electives for Psychology (Biostatistics Concentration)

Code	Title	Hours
HLTH 312	Data Management for Health Science	3
HLTH 313	Biostatistics	3
STAT 252	Introduction to Statistical Modeling	3
STAT 254	Nonparametric Statistics	3
STAT 256	Statistical Computing	3

Recommended Electives for Pre-Professional Concentration (e.g., pre-med, pre-vet) Concentration

Code	Title	Hours
PHYS 201	Elements of Physics I with Lab	4
PHYS 202	Elements of Physics II/ Lab	4
CHEM 201 & CHEM 211	Organic Chemistry I and Organic Chemistry Laboratory I	4
CHEM 202 & CHEM 212	Organic Chemistry II and Organic Chemistry Laboratory II	4

CHEM 335 & CHEM 336	Biochemistry I and Biochemistry Laboratory I	4	This program is effective as of Summer 2022 Revised 04.21.2022 UCC 02.15.2022
CHEM 337 & CHEM 338	Biochemistry II and Biochemistry Laboratory II	4	

Recommended Electives for Physician Assistant Concentration

Code	Title	Hours
BIOL 216	Anatomy and Physiology I with Lab	3
BIOL 217	Anatomy and Physiology II with Lab	3
BIOL 330	Microbiology/Lab ¹	3
HCAM 250 or EXSC 250	Medical Terminology for Healthcare Administrators Medical Terminology	3

¹ Additional pre-requisite CHEM 201 Organic Chemistry I

Additional Recommendations for Rock Studies 2 Courses

Code	Title	Hours
BIOL 300	Social and Ethical Issues in Genetics	3
CDEV 201	Interpersonal and Group Dynamics	3
COMM 314	Interpersonal Communication	3
INDP 201	Principles of Sociology	3
INDP 202	Introduction to Anthropology	3
PHIL 123	Ethics	3
PHIL 325	Medical/Health Care Ethics	3

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. International Study Programs
2. High-Impact Practice (HIP) designated classes
3. Student-faculty research
4. Student leadership (Psi Chi, Psychology Club, Reflections Body Image Organization, Nu Rho Psi, Neuro Rocks)
5. Service-learning classes
6. Career education planning (Office of Career Education and Development)
7. Internships
8. Volunteering in local human services and mental health agencies
9. Job shadowing

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

PSYCHOLOGY - BS (6170)
Concentration in Neuroscience (NEUR)