## Slippery Rock University of Pennsylvania – Curriculum Guide
### Bachelor of Science in Psychology
### Concentration in Neuroscience

### LIBERAL STUDIES REQUIREMENTS (47 credits)
See Liberal Studies Guide for Goal and Enrichment choices

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 102</td>
<td>Critical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 104 or ENGL 220</td>
<td>Critical Reading or Intro to Literary and Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMM 200</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

### GOAL COURSE REQUIREMENTS
Complete Goal course requirements as indicated below (38 credits)

### Human Institutions/Interpersonal Relationships (3 credits)
- BIOL 104: Principles Of Biology/Lab
- CHEM 107: General Chemistry
- CHEM 111: General Chemistry Lab
- STAT 152: Elementary Statistics I
- BIOL 108/112: General Chemistry II w/lab

### OTHER BASIC REQUIREMENTS
Check with your advisor 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.
- ACSD 110: Beginning Algebra

### COMPUTER COMPETENCY
Students must demonstrate “computer competency” by:
- Passed Exam
- Pass Computer Competency Exam
- OR CPSC [___]: Complete one of the following courses: CPSC 100, 110, 130, or PE 202 at SRU or another post-secondary institution

### 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 advisors to ensure accurate progress towards degree completion. The information on this guide is current as of the date below. Students are responsible for curriculum requirements at the time of enrollment at the University.

- A Course may have a prerequisite. See Undergraduate Online Catalog.
- ^ Course counts for 50% Major requirement and Major GPA
- + Indicates PSYC 231 and/or 232 are pre-requisites. For other course pre-requisites, refer to the online undergraduate catalog
- ~ 50% of major but not major GPA
- Note: All 200 & 300 level courses (except PSYC 300 & 315) require PSYC 105 as a pre-requisite
- PASSHE = Pennsylvania State System of Higher Education Institution

### GPA REQUIREMENT
- 3.00 or higher Major GPA
- 3.25 or higher Overall GPA

### MAJOR/CONCENTRATION REQUIREMENTS (53-54 credits)
- 27 major credits must be taken at SRU or PASSHE
- 27 major credits must be at the 300 level or above

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 105+</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 221^</td>
<td>Intro to Behavioral Statistics or Psychological Science II Statistical App</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 232^</td>
<td>Psychological Science I Research Methods Prereq: LIBR 110</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 311^312^</td>
<td>Intro to Behavioral Neuroscience/Lab</td>
<td>4</td>
</tr>
</tbody>
</table>
| PSYC 325/326^ | Intro to Experimental Psych/Lab Prereq: LIBR 110 or | 4 or  
| PSYC 231^ | Psychological Science I Research Methods Prereq: LIBR 110 | 3  |

### Goal 2: Depth of Knowledge & Making Connections (25 credits)

- Psychology Core Courses
- PSYC 244^: Developmental Psychology
- PSYC 276^: Intro to Abnormal Psychology
- Psychology Neuroscience Content Courses
- PSYC 233^: Sensation and Perception
- PSYC 303^: Learning
- PSYC 321^: Drugs and Behavior
- PSYC 338^: Cognitive Psychology
- Interdisciplinary Core Courses
- BIOL 250^: Genetics/Lab
- CHEM 201^: Organic Chemistry
- PSYC 475^: Clinical Neuroscience
- PSYC 477^: Developmental Neuroscience
- Research Capstone (Students must register for two semesters)
- PSYC 451^: Research Capstone Internship
- PSYC 451^: Research Capstone Internship
- Interdisciplinary Electives (Choose 2)
- PSYC 330^: Microbiology/Lab
- PSYC 335^: Cell Biology/Lab
- PSYC 370^: Molecular Biology/Lab

### Goal 3: Depth of Knowledge, Technical Expertise & Research (15 credits)

- Psychology Neuroscience Content Courses
- PSYC 475^: Clinical Neuroscience
- PSYC 477^: Developmental Neuroscience
- Research Capstone (Students must register for two semesters)
- PSYC 451^: Research Capstone Internship
- PSYC 451^: Research Capstone Internship
- Interdisciplinary Electives (Choose 2)
- BIOL 330^: Microbiology/Lab
- BIOL 335^: Cell Biology/Lab
- BIOL 370^: Molecular Biology/Lab

### ELECTIONS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Proposal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scholarly Paper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concept Focused Paper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applied/Case Analysis Paper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lab Report</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### WRITING COMPETENCY REQUIREMENTS

- 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.
**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 track AND/OR for their remaining credits after meeting their liberal studies and major requirements.

**Recommended Electives for Psychology/Biology Concentration**

- BIOL 216 Anatomy and Physiology I/Lab (3)
- BIOL 217 Anatomy and Physiology II/Lab (3)
- BIOL 340 Vertebrate Anatomy/Lab (3, additional pre-requisite BIOL 212 General Zoology/Lab)
- BIOL 330 Microbiology/Lab (3, additional pre-requisite CHEM 201 Organic Chemistry I)
- BIOL 335 Cell Biology/Lab (3, additional pre-requisite CHEM 201 Organic Chemistry I)
- BIOL 325 Biometry/Lab (3)
- BIOL 370 Molecular/Lab (3)
- BIOL 410 Animal Physiology/Lab
- CHEM 201 Organic Chemistry I/Lab (4)
- CHEM 202/212 Organic Chemistry II/Lab (4)
- CHEM 335/336 Biochemistry I/Lab (3)
- CHEM 337/338 Biochemistry II/Lab (3)
- BIOAM 152 Elementary Statistics I (3)
- MATH 120 (Intermediate Algebra, 3), AMATH 125 (Precalculus, 3) OR AMATH 225 (Calculus)
- ABIOL 104 Principles of Biology w/lab (4)
- ACHEM 107/111 General Chemistry I w/lab (4)
- ACHEM 108/112 General Chemistry II w/lab (4)

**Additional recommendations for liberal studies courses**

- INDS 110 Research.com (1)
- AMATH 152 Elementary Statistics I (3)
- MATH 120 (Intermediate Algebra, 3), AMATH 125 (Precalculus, 3) OR AMATH 225 (Calculus)
- ABIOL 104 Principles of Biology w/lab (4)
- ACHEM 107/111 General Chemistry I w/lab (4)
- ACHEM 108/112 General Chemistry II w/lab (4)

- BIOAM 152 Elementary Statistics I (3)
- MATH 120 (Intermediate Algebra, 3), AMATH 125 (Precalculus, 3) OR AMATH 225 (Calculus)
- ABIOL 104 Principles of Biology w/lab (4)
- ACHEM 107/111 General Chemistry I w/lab (4)
- ACHEM 108/112 General Chemistry II w/lab (4)

**Recommended Electives for Psychology/Chemistry Concentration**

- CHEM 201/211 Organic Chemistry I/Lab (4)
- CHEM 335/336 Biochemistry I/Lab (3)
- CHEM 202/212 Organic Chemistry II/Lab (4)
- CHEM 337/338 Biochemistry II/Lab (3)

**Recommended Electives for Psychology/Biostatistics Concentration**

- MATH 153 Elementary Statistics II (3)
- MATH 254 Nonparametric Statistics (3)
- HLTH 312 Data Management for Health Science (3)
- MATH 252 Introduction to Statistical Modeling (3)
- MATH 256 Statistical Computing (3)
- HLTH 313 Biostatistics (3)

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

- PHYS 201 General Physics I/Lab (4)
- CHEM 201/211 Organic Chemistry I/Lab (4)
- CHEM 335/336 Biochemistry I w/ Lab (3)
- PHYS 202 General Physics II/Lab (3)
- CHEM 202/212 Organic Chemistry II/Lab (4)
- CHEM 337/338 Biochemistry II w/Lab (3)

**Recommended Electives for Physician Assistant Concentration**

- BIOL 216 Anatomy and Physiology I/Lab (3)
- BIOL 330 Microbiology/Lab (3, additional pre-requisite CHEM 201 Organic Chemistry I)
- HCAM 250/ERS 250 Medical Terminology (3)
- BIOL 217 Anatomy and Physiology II/Lab (3)

**Additional recommendations for liberal studies courses**

- PROF 201 Principles of Sociology PHIL
- 123 Ethics
- CDEV 314 Interpersonal Communication PHIL
- 325 Medical/Health Care Ethics

**Pre-requisites for Neuroscience Track Courses (AMeets Liberal Studies requirement, 19 Credits):** Learn fundamental and organizing principles in biology, math, and chemistry. Students must complete pre-requisite coursework and have an overall GPA of 3.25 to be officially admitted to the Psychology Neuroscience track.