

## Neuroscience Major

The Department of Psychological Science made revisions that effect the Neuroscience, effective for the 2019-2020 academic year. The outline of the program is provided below. Significant changes include:

- New course prefixes (from PY to PSY)
- New numbering system
- Deletion of PY211 Learning
- Deletion of PY311 Thinking and Cognition
- Creation of a new course: PSY230 Learning and Cognition

For students who have not taken PY211 Learning yet, take PSY230 Learning and Cognition instead. For PY311 Thinking and Cognition in the Behavioral and Cognitive concentration, choose a neuroscience elective in place of PY311.

### Core Courses 32

BI 111 Introductory Biology: Principles [SCII] 4

BI 207 Human Anatomy and Physiology 1 4

BI 218 Introduction to Cell and Molecular Biology [SCII] 4

BI 420 Neuroscience 4

PY 100 Introduction to Psychology [SCII] 4

PY 204 Physiological Psychology [SCII] 4

PY 211 Learning 4

PY 404 Advanced Physiological Psychology 4

Now PSY100 Introduction to Psychological Science [SCII w/ lab]

Now PSY250 Brain and Behavior [SCII w/ lab]

If PY211 not taken yet, take PSY230 Learning and Cognition instead.

Now PSY450 Methods in Psychophysiology

### Choose a Concentration:

#### ***Cellular and Molecular Neuroscience Concentration 31-33***

BI 112 Introductory Biology: Diversity 4

BI 215 Principles of Evolution 4

BI 312 Genetics 4

BI 406 Advanced Cell Biology 4

BI 417 Comparative Vertebrate Neuroanatomy 4

BI 425 Endocrinology 3

BI 488 Advanced Research in Biology (1-4 cr.) or

BI 499 Internship (1-6 cr.)

#### ***Electives for Cellular and Molecular Neuroscience Concentration 6-8***

BI 208 Human Anatomy and Physiology 2 (4 cr.)

BI 221 Comparative Anatomy (4 cr.)

BI 225 Physiology of Aging (3 cr.)

BI 327 Animal Physiology (4 cr.)

BI 391 Laboratory Experience (1-2 cr.)

BI 412 Biostatistics (4 cr.)

<i>BI 413 Biochemistry of Development (4 cr.)</i>		Now PSY350 Neuropsychology
<i>BI 418 Molecular Biology (4 cr.)</i>		Now PSY457 Psychopharmacology
<i>BI 419 Biology of Cancer (4 cr.)</i>		PY311 no longer offered
<i>BI 426 Human Histology (4 cr.)</i>		Now PSY451 Sensation and Perception
<i>PY 303 Human Neuropsychology (4 cr.)</i>		PY441 no longer offered
<i>PY 309 Psychopharmacology (4 cr.)</i>		
<i>PY 311 Thinking and Cognition (4 cr.)</i>		
<i>PY 410 Sensation and Perception (4 cr.)</i>		
<i>PY 441 Individual Differences in Development (4 cr.)</i>		
<i>SL 459 Cognitive Neuroscience (4 cr.)</i>		
<b>Behavioral and Cognitive Neuroscience Concentration</b>	<b>26</b>	
<i>PY 303 Human Neuropsychology 4</i>		Now PSY350 Neuropsychology
<i>PY 311 Thinking and Cognition 4</i>		PY311 no longer offered. Replace with course from list of electives.
<i>PY 309 Psychopharmacology or</i>		Now PSY457 Psychopharmacology
<i>    PY 410 Sensation and Perception (4 cr.) or</i>		Now PSY451 Sensation and Perception
<i>    PY 441 Individual Differences in Development (4 cr.)</i>		PY441 no longer offered
<i>SL 459 Cognitive Neuroscience 4</i>		
<i>PY 498 Directed Research/Directed Study (1-4 cr.)</i>		Becomes PSY498 for new prefix
<b>Behavioral and Cognitive Neuroscience Concentration Electives</b>	<b>8</b>	
<i>BI 215 Principles of Evolution (4 cr.)</i>		
<i>BI 221 Comparative Anatomy (4 cr.)</i>		
<i>BI 312 Genetics (4 cr.)</i>		
<i>BI 406 Advanced Cell Biology (4 cr.)</i>		
<i>BI 417 Comparative Vertebrate Neuroanatomy (4 cr.)</i>		Now PSY202 Psychological Research II: Exp. Design. and Method.
<i>BI 425 Endocrinology (3 cr.)</i>		Now PSY343 Causes & Control of Aggression
<i>PY 205 Introduction to Research Methods in Psychology (4 cr.)</i>		Now PSY201 Psychological Research I: Statistical Applications
<i>PY 302 Causes and Control of Aggression (4 cr.)</i>		Now PSY457 Psychopharmacology
<i>PY 305 Psychological Statistics (4 cr.) [QUAR]</i>		Now PSY240 Abnormal Psychology
<i>PY 309 Psychopharmacology (4 cr.)</i>		Now PSY451 Sensation and Perception
<i>PY 355 Abnormal Psychology (4 cr.)</i>		
<i>PY 410 Sensation and Perception (4 cr.)</i>		
<i>PY 441 Individual Differences in Development (4 cr.)</i>		PY441 no longer offered
<b>Other Required Courses</b>	<b>10</b>	
<b>CH 111 General Chemistry I [SCII] 5</b>		
<b>CH 112 General Chemistry II 5</b>		

### Minor 20-24

Select one of these options: 1) integrative science minor; 2) pre-professional minor; 3) chemistry, physics, or math minor. If option 3, it is recommended that the student take 8 additional credits from science areas outside of the selected minor.