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

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.)
BI 413 Biochemistry of Development (4 cr.)
BI 418 Molecular Biology (4 cr.)
BI 419 Biology of Cancer (4 cr.)
BI 426 Human Histology (4 cr.)
PY 303 Human Neuropsychology (4 cr.)
PY 309 Psychopharmacology (4 cr.)
PY 311 Thinking and Cognition (4 cr.)
PY 410 Sensation and Perception (4 cr.)
PY 441 Individual Differences in Development (4 cr.)
SL 459 Cognitive Neuroscience (4 cr.)

Behavioral and Cognitive Neuroscience Concentration  26
PY 303 Human Neuropsychology 4
PY 311 Thinking and Cognition 4
PY 309 Psychopharmacology or
PY 410 Sensation and Perception (4 cr.) or
PY 441 Individual Differences in Development (4 cr.)
SL 459 Cognitive Neuroscience 4
PY 498 Directed Research/Directed Study (1-4 cr.)

Behavioral and Cognitive Neuroscience Concentration Electives    8
BI 215 Principles of Evolution (4 cr.)
BI 221 Comparative Anatomy (4 cr.)
BI 312 Genetics (4 cr.)
BI 406 Advanced Cell Biology (4 cr.)
BI 417 Comparative Vertebrate Neuroanatomy (4 cr.)
BI 425 Endocrinology (3 cr.)
PY 205 Introduction to Research Methods in Psychology (4 cr.)
PY 302 Causes and Control of Aggression (4 cr.)
PY 305 Psychological Statistics (4 cr.) [QUAR]
PY 309 Psychopharmacology (4 cr.)
PY 355 Abnormal Psychology (4 cr.)
PY 410 Sensation and Perception (4 cr.)
PY 441 Individual Differences in Development (4 cr.)

Other Required Courses      10
CH 111 General Chemistry I [SCII] 5
CH 112 General Chemistry II 5

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.