

# Neuropharmacology Sequence

**Faculty Mentors: Profs Tom Borowski, Melissa Coleman, Sandra Watson**

For students interested in a research career in neuropharmacology with more of a molecular emphasis.

## **Recommended core electives (any three listed):**

- Physics 30 or Physics 31 General Physics
- Math 31 Calculus 2
- Statistics course : PSYC 91 PZ; PSYC 103 SC or PSYC 109 CM or BIO 175 KS Applied Biostatistics

## **Sequence courses (4 with a 2-semester senior thesis, 5 with a 1-semester thesis)**

PSYC 148 PZ Neuropharmacology & Behavior and any 3 of the following:

- BIOL 143 KS Genetics
- BIOL 156L KS Genomics and Bioinformatics
- BIOL 170L Molecular Biology
- Chemistry 116 KS or 117 KS Organic Chemistry
- Chemistry 177 KS Biochemistry
- NEUR 103 KS Neurobiology of Addiction, Motivation, and Reward
- NEUR 181 KS Molecular Basis of Neural Diseases
- PSYC 111/PSYC 111P PZ Physiological Psychology & Practicum

For students in neuropharmacology that are interested in more of a psychology/behavioral emphasis.

**Recommended core electives (ny three listed):**

- PSYC 96 PZ Introduction to MATLAB
- NEUR 133L KS Introduction to Computational Neuroscience
- Statistics course: PSYC 91 PZ or PSYC 103 SC or PSYC 109 CM or BIO 175 KS
- Research Methods: PSYC 92 PZ or PSYC 104/104L SC or PSYC 110/111L CM

**Sequence courses (4 with a 2-semester senior thesis, 5 with a 1-semester thesis)**

PSYC 148 Neuropharmacology & Behavior any 3 of the following:

- PSYC 096 CM Neuropsychology
- PSYC 111/ PSYC 111P Physiological Psychology & Practicum
- PSYC 113 PZ Psychobiology of Emotions
- PSYC 118 PZ Health Psychology or equivalent
- PSYC 123 SC & 123L SC Cognitive Neuroscience
- PSYC 131 SC & PSYC 131L SC Clinical Neuropsychology
- PSYC 181 PZ Psychological Disorders of equivalent
- PSYC 118 PZ Health Psychology or equivalent
- NEUR 103 KS Neurobiology of Addiction, Motivation, and Reward
- NEUR 161 KS Neuroendocrinology
- NEUR 181 KS Molecular Basis of Neural Diseases