Roadmap for Ph.D. Biochemistry & Neuroscience

Department of Chemistry & Biochemistry

2019-2020

The Biochemistry and Neuroscience Ph.D. program generates individualized roadmaps for each graduate student in consultation with the student's graduate committee. There are two tracks that can be followed, with the required coursework outlined below. Completion of coursework early in the program is encouraged. Note that most graduate courses are taught once every two years.

Ph.D. Biochemistry and Neuroscience with **Biochemistry Concentration**

Complete three from the following: 9 credits
CHEM F654; Protein Structure and Function; 3 credits; Offered Spring even years.
CHEM F657; Molecular Foundations of Gene Expression; 3 credits; Offered Spring even years.
CHEM F670; Cellular and Molecular Neuroscience; 3 credits; Offered Fall even years.
CHEM F674; Membrane Biochemistry and Biophysics; 3 credits; Offered Fall even years.
CHEM F675 Cellular Signaling; 3 credits; Offered Spring odd years.

Complete 9 credits of electives excluding thesis or project (CHEM F699 and F698).

Complete the seminar series, CHEM F688, Biochemical and Molecular Biology Seminar (1 credit) at least twice; 2 credits total, offered every semester.

Ph.D. Biochemistry and Neuroscience with **Neuroscience Concentration**

Complete the following: 6 credits
CHEM F670; Cellular and Molecular Neuroscience; 3 credits; Offered Fall even years.
CHEM F676; Neurochemistry; 3 credits; Offered Fall odd years

Complete one from the following: 3
CHEM F654; Protein Structure and Function; 3 credits; Offered Spring even years.
CHEM F657; Molecular Foundations of Gene Expression; 3 credits; Offered Spring even years.
CHEM F674; Membrane Biochemistry and Biophysics; 3 credits; Offered Fall even years.
CHEM F675 Cellular Signaling; 3 credits; Offered Spring odd years.

Complete 9 credits of electives at the 400- or 600-level, as approved by the graduate committee, excluding thesis or project (CHEM F699 and CHEM F698), with at most two courses at the 400-level

Complete the seminar series, CHEM F688, Biochemical and Molecular Biology Seminar (1 credit) at least twice; 2 credits total, offered every semester.