

BIOCHEMISTRY AND NEUROSCIENCE WITH NEUROSCIENCE CONCENTRATION PH.D.

See Chemistry B.S. (<https://catalog.uaf.edu/bachelors/chemistry-bs/>) and M.S. (<https://catalog.uaf.edu/masters/chemistry/>) programs.

See Environmental Chemistry Ph.D. (<https://catalog.uaf.edu/phd/environmental-chemistry/>) program.

Admission Requirements

Complete the following admission requirements:

- Submit GRE General Test scores
- If English is not your native language, submit scores from both the Test of Spoken English and the Test of Written English, as well as TOEFL scores. Requests, including justification, for exceptions to this requirement should be made to the chair of the department.

Program Requirements

Catalog Department Overview # (<https://catalog.uaf.edu/academic-departments/chemistry-biochemistry/>)

Minimum Requirements for Biochemistry and Neuroscience Ph.D. (including core courses): 38 credits

Code	Title	Credits
General University Requirements		
Complete the graduate general university requirements. (https://catalog.uaf.edu/phd/#gurphdtext)		
Ph.D. Degree Requirements		
Complete the Ph.D. degree requirements. (https://catalog.uaf.edu/phd/#phdrequirements)		18
As part of the Ph.D. requirements, complete the following:		
CHEM F699	Thesis (18 credits)	
Biochemistry and Neuroscience Program Requirements		
Complete the following:		
CHEM F670	Cellular and Molecular Neuroscience	3
CHEM F676	Neurochemistry	3
Complete one of the following:		3
CHEM F654	Protein Structure and Function	
CHEM F657	Molecular Foundations of Gene Expression	
CHEM F674	Membrane Biochemistry and Biophysics	
CHEM F675	Cellular Signaling	
Complete nine credits of electives at the F400 or F600 level, as approved by the graduate committee, excluding thesis or project (CHEM F699 and CHEM F698), with at most two courses at the F400 level		9
Complete Ph.D. dissertation in a field of neuroscience		
Complete the seminar series, CHEM F688, at least twice.		2
CHEM F688	Biochemical and Molecular Biology Seminar	
Total Credits		38