PH.D., BIOCHEMISTRY AND NEUROSCIENCE WITH NEUROSCIENCE CONCENTRATION

- Complete the following admission requirements:
  a. Submit GRE General Test scores
  b. 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.

Minimum Requirements for Degree (including core courses): 38 credits

General University Requirements
Complete the general university requirements. ([http://catalog.uaf.edu/graduate](http://catalog.uaf.edu/graduate))

Ph.D. Degree Requirements
Complete the Ph.D. degree requirements. ([http://catalog.uaf.edu/graduate/#phd](http://catalog.uaf.edu/graduate/#phd))

Program Requirements
Select three from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CHEM F654</td>
<td>Protein Structure and Function</td>
</tr>
<tr>
<td>CHEM F657</td>
<td>Molecular Foundations of Gene Expression</td>
</tr>
<tr>
<td>CHEM F674</td>
<td>Membrane Biochemistry and Biophysics</td>
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<tr>
<td>CHEM F670</td>
<td>Cellular and Molecular Neuroscience</td>
</tr>
<tr>
<td>CHEM F675</td>
<td>Cellular Signaling</td>
</tr>
<tr>
<td>CHEM F676</td>
<td>Neurochemistry</td>
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</table>

Select three electives with two of the electives in neurosciences

Complete Ph.D. dissertation in a field of neuroscience

Complete two seminar series (CHEM F692)

Total Credits 9

See Chemistry B.A., B.S. ([http://catalog.uaf.edu/bachelors/bachelors-degree-programs/chemistry](http://catalog.uaf.edu/bachelors/bachelors-degree-programs/chemistry)) and M.S. ([http://catalog.uaf.edu/graduate/graduate-degree-programs/chemistry](http://catalog.uaf.edu/graduate/graduate-degree-programs/chemistry)) programs.

See Environmental Chemistry ([http://catalog.uaf.edu/graduate/graduate-degree-programs/environmental-chemistry](http://catalog.uaf.edu/graduate/graduate-degree-programs/environmental-chemistry)).