BSA-Biological Sciences, Neurobiology  

Bachelor of Science and Arts (BSA)

**Mellon College of Science (MCS) Concentrations**

<table>
<thead>
<tr>
<th>Biological Sciences</th>
<th>114 units minimum</th>
</tr>
</thead>
</table>
| **Advisor:** Becki Campanaro, DH 1320, 8-3626  
  bmc413@cmu.edu |

### Biological Sciences Required Courses  
96 units

- **09-201** &/or **09-202** Undergrad. Colloquium for Sophomores  
- **09-220** Genetics (co-req: **03-343**)  
- **03-231** or **232** Biochemistry I  
- **03-320** Cell Biology (Fall, Junior year)  
- **03-343** Experimental Techniques in Molecular Biology (Fall, Junior year)  
- **09-106** Modern Chemistry II  
- **09-207** Techniques in Quantitative Analysis  
- **09-208** Techniques for Organic Synthesis and Analysis  
- **or 03-344** Experimental Biochemistry  
- **or 03-345** Experimental Cell and Developmental Biology  
- **09-217** Organic Chemistry I  
- **09-218** Organic Chemistry II  
- **33-122** Physics II for Bio. Sciences and Chemistry Students  

### Biological Sciences Electives (2 courses)  
18 units

One course must be an advanced elective selected from **03-3xx** or higher, excluding **03-445**.

<table>
<thead>
<tr>
<th>Neurobiology</th>
<th>114 units minimum</th>
</tr>
</thead>
</table>
| **Advisor:** Becki Campanaro, DH 1320, 8-3626  
  bmc413@cmu.edu |

### Neurobiology Required Courses  
96 units

- **03-161** Molecules to Mind  
- **or 85-219** Biological Foundations of Behavior  
- **03-201** Undergraduate Colloquium for Sophomores  
- **03-220** Genetics (Fall, Sophomore year)  
- **03-231** Biochemistry I (Spring, Sophomore year)  
- **03-320** Cell Biology (Fall, Junior year)  
- **03-342** Introduction to Biological Laboratory Practices (Fall, Junior year)  
- **03-343** Experimental Techniques in Molecular Biology (Fall, Junior year)  
- **03-362** Cellular Neuroscience  
- **03-363** Systems Neuroscience  
- **09-217** Organic Chemistry I  
- **33-122** Physics II for Bio. Sciences and Chemistry Students  
- **85-211** Cognitive Psychology  

### Neurobiology Electives (2 courses)  
18 units

One course must be an advanced elective selected from **03-3xx** or higher.

**BSA Free Electives**

Take any Carnegie Mellon course. A maximum of 9 units of physical education and/or military science may be counted toward this requirement. Physical education and military science courses will not be calculated in a student’s QPA.