BEHAVIORAL BIOLOGY, BACHELOR OF ARTS

Behavioral Biology Major Requirements
(Also see Requirements for a Bachelor’s Degree. ([https://e-catalogue.jhu.edu/arts-sciences/full-time-residential-programs/undergraduate-policies/academic-policies/requirements-for-a-bachelors-degree/](https://e-catalogue.jhu.edu/arts-sciences/full-time-residential-programs/undergraduate-policies/academic-policies/requirements-for-a-bachelors-degree/)))

The core program of the behavioral biology major provides background and breadth in:

1. The life sciences (e.g., animal behavior, evolution)
2. The natural sciences (e.g., biology, chemistry and physics) and mathematics (e.g., calculus and statistics)
3. The social and behavioral sciences (e.g. psychology and anthropology)

The exact courses to be taken are determined by the student in conjunction with the faculty advisor. A grade of C- or better is required for courses fulfilling major requirements and courses may not be taken satisfactory/unsatisfactory. Hopkins undergraduates may enter the Behavioral Biology Program at any time, provided all requirements can be completed before graduation.

Additional information regarding the Behavioral Biology Program is available through our website at [http://krieger.jhu.edu/behavioralbiology/](http://krieger.jhu.edu/behavioralbiology/). You may also contact our Academic Program Administrator, Linda White, linda.m.white@jhu.edu or 410-516-6196.

Requirements for the behavioral biology major are as follows:

### Code | Title | Credits
---|---|---
**Mathematics, Chemistry, and Physics Courses**
AS.110.106 | Calculus I (Biology and Social Sciences) | 4
or AS.110.108 | Calculus I (Physical Sciences & Engineering) | 4
AS.110.107 | Calculus II (For Biological and Social Science) | 4
or AS.110.109 | Calculus II (For Physical Sciences and Engineering) | 4
or AS.171.113 | Subatomic World | 1

AS.030.101 | Introductory Chemistry I and Introductory Chemistry Laboratory I | 4
AS.030.105 & AS.030.106 | Introductory Chemistry II and Introductory Chemistry Laboratory II | 4
& AS.030.113 | Applied Chemical Equilibrium and Reactivity w/lab | 1

AS.171.101 | General Physics: Physical Science Major I | 4
or AS.171.103 | General Physics I for Biological Science Majors | 4
or AS.171.107 | General Physics for Physical Sciences Majors (AL) | 4
AS.173.111 | General Physics Laboratory I | 1

AS.171.102 | General Physics: Physical Science Major II | 4
or AS.171.104 | General Physics/Biology Majors II | 4
or AS.171.108 | General Physics for Physical Science Majors (AL) | 4

AS.173.112 | General Physics Laboratory II | 1

**Biology Courses**

Students must have 2 of the following Biology Options. Students can use any combination of the following:

AS.171.112 | General Genetics | 4
& AS.171.114 | General Genetics Lab | 2

AS.200.151 | General Biology I | 4
& AS.200.153 | General Biology Laboratory I | 4
AS.200.152 | General Biology II | 4
& AS.200.154 | General Biology Lab II | 4

AS.200.303 | Genetics | 4
& AS.200.340 | and Developmental Genetics Lab | 4
or AS.200.315 | Biochemistry Project lab | 4

AS.200.305 | Biochemistry | 4
& AS.200.315 & AS.200.316 | and Biochemistry Project lab | 4

AS.200.306 | Cell Biology | 4
& AS.200.316 & AS.200.374 | and Cell Biology Lab | 4
& AS.200.377 | Comparative Physiology | 4
& AS.200.378 & AS.200.379 | and Comparative Physiology Lab | 4

**Introductory Statistics**

Students must complete 1 of the following:

AS.280.345 | Public Health Biostatistics | 4
EN.553.211 | Probability and Statistics for the Life Sciences | 4
EN.553.311 | Probability and Statistics for the Biological Sciences and Engineering | 4
or EN.553.310 | Probability & Statistics for the Physical Sciences & Engineering | 4

EN.553.111 | Statistical Analysis I | 8
& EN.553.112 | and Statistical Analysis II | 8

**Behavioral Biology Core Courses (Offered “F” = Fall, “S” = Spring)**

AS.200.141 | Foundations of Brain, Behavior and Cognition (F & S) | 3
AS.290.101 | Human Origins (S) | 3
AS.200.208 | Animal Behavior (F) | 3
AS.080.250 | Neuroscience Laboratory (F & S) | 3

**Behavioral Biology Elective Courses**

Three courses (3 credits each) designated “biobehavioral (BEHB-BIOBEH)"

Two courses (3 credits each) designated “social science” (BEHB-SOCSCI)

AS.290.490 | Senior Seminar: Behavioral Biology | 1

**Behavioral Biology Research/Internship Courses**

Three credits (one semester) of Research, Internship, Independent Study or Interundance Galapagos trip

AS.290.500 | Connections in Behavioral Biology | 0.5

**Total Credits**

102.5

1 For students with AP Biology credit, they may use only one course and its lab from those credits towards this requirement. Therefore, these student must take at least one biology course and its lab at JHU. Students who elect to take General Biology I or II with its lab will lose the corresponding AP credits. Students should also refer to AP credit policies for additional details around the use of AP Biology credits.
2 Students should refer to the program website ([http://krieger.jhu.edu/behavioralbiology/courses/](http://krieger.jhu.edu/behavioralbiology/courses/)) or the schedule of classes to identify elective choices.
3 Students must be registered in one of the following: AS.290.501, AS.290.502, AS.290.503, AS.290.504, AS.290.505, AS.290.506, AS.290.507, AS.290.508, AS.290.519, AS.290.520, AS.290.572, AS.290.590, AS.290.594, AS.290.595, AS.290.596, AS.290.597 OR
Sample Program
This is only one of many possible course sequences that students may elect to follow.

First Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
<th>Second Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS.200.141</td>
<td>3</td>
<td>AS.290.101</td>
<td>3</td>
</tr>
<tr>
<td>AS.110.106</td>
<td>4</td>
<td>AS.110.107</td>
<td>4</td>
</tr>
<tr>
<td>AS.030.101</td>
<td>3</td>
<td>AS.030.102</td>
<td>3</td>
</tr>
<tr>
<td>AS.030.105</td>
<td>1</td>
<td>AS.030.106</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>11</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
<th>Second Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS.200.208</td>
<td>3</td>
<td>Biology Option 2</td>
<td>3-4</td>
</tr>
<tr>
<td>Biology Option 1</td>
<td>3-4</td>
<td>Biology Lab Option 2</td>
<td>1-3</td>
</tr>
<tr>
<td>Biology Lab Option 1</td>
<td>1-2</td>
<td>BB Elective (BEHB-SOCSCI)</td>
<td>3</td>
</tr>
<tr>
<td>EN.553.211</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>11-13</td>
</tr>
</tbody>
</table>

Third Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
<th>Second Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS.080.250³</td>
<td>3</td>
<td>AS.171.104</td>
<td>4</td>
</tr>
<tr>
<td>AS.171.103</td>
<td>4</td>
<td>AS.173.112</td>
<td>1</td>
</tr>
<tr>
<td>AS.173.111</td>
<td>1</td>
<td>BB Elective (BEHB-SOCSCI)</td>
<td>3</td>
</tr>
<tr>
<td>BB Elective (BEHB-BIOBEH)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research or Internship</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AS.290.500</td>
<td>.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>14.5</td>
</tr>
</tbody>
</table>

Fourth Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
<th>Second Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS.290.490⁴</td>
<td>1</td>
<td>BB Elective (BEHB-BIOBEH)</td>
<td>3</td>
</tr>
<tr>
<td>BB Elective (BEHB-BIOBEH)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 69.5-74.5

³ AS.080.250 Neuroscience Laboratory can be taken anytime after
  AS.200.141 Foundations of Brain, Behavior and Cognition
⁴ AS.290.490 Senior Seminar: Behavioral Biology can be taken either Fall
  or Spring of senior year.

Honors in Behavioral Biology

Students receive recognition at graduation and notation on their JHU transcripts.

Requirements:
- Cumulative and Major GPA of at least 3.5
- 6 credits of research
- An Honors Thesis that is based on their 6 credits of required research
  and is approved by their research mentor.

During the semester prior to graduation, students must submit
verification of their mentor-approved Honors Thesis. Details on the