Psychology and Biological Sciences (BS)

Major Academic Director: Erik Thiessen (BH 342D); Undergraduate Coordinator: Emilie O'Leary (BH 339)

This unified major is intended to reflect the interdisciplinary nature of current research in the fields of Psychology and Biology, [the growing interest in neuroscience and cognitive-neuroscience] as well as the national trend in some professions to seek individuals broadly trained in both the social and natural sciences. Students in the Dietrich College will earn a Bachelor of Science in Psychology and Biological Sciences.

This major satisfies most, but not all requirements for pre-medical preparation.

This is a suggested schedule for the first 2 years for a Primary Major.

See also below for Major and GenEd can be completed in the junior and senior year.

### 1st semester (50 units)
- Complete 2:
  - 76-101, Interpretation & Argument
  - 79-104, Global Histories
  - Freshman Seminar
  - 99-101 or 99-102, C@CM
  - 85-102, Intro. to Psychology
  - 21-120, Diff. & Integral Calculus
  - 09-105, Intro. to Mod. Chem. I

### 2nd semester (47 units)
- Complete 1:
  - 76-101, Interpretation & Argument
  - 79-104, Global Histories
  - Freshman Seminar
  - 36-201, Statistical Reasoning
  - 21-122, Int., Diff., Equ., & Approx.
  - 09-106, Modern Chemistry II
  - 03-121, Modern Biology

### 3rd semester (45 units)
- 36-309, Exp. Des. for Beh. & S. S.
- 85-219, Biological Fnds. of Beh.
- 09-217, Organic Chemistry I
- 03-231, Biochemistry I

*If required to start with 21-111, complete 21-112, then 21-122.

**Elective: This space can be used for a pre-requisite course, another GenEd course, major course, or for a course you are interested in.

***Suggested substitution for the GenEd requirement 36-201 is: 36-247, Statistics for Lab Sciences (prereq: 21-120).

### 4th semester (48 units)
- 85-2xx, Psychology Survey
- 09-218, Organic Chemistry II
- 03-240, Cell Biology
- GenEd**

### 5th semester (48 units)
- 85-2xx, Psychology Survey
- 85-3xx or 03-3xx, Advanced Psychology or Biology Lab

### 6th semester (49 units)
- 85-3xx, Advanced Psychology
- 03-3xx, Advanced Biology
- 15-110, Principles of Computing
- GenEd**
- Elective**

### 7th semester (37 units)
- 85-3xx or 03-3xx, Advanced Psychology or Advanced Biology
- 03-3xx, General Biology
- 03-411, Topics in Research
- GenEd**
- Elective**

### 8th semester (37 units)
- 85-3xx or 03-3xx, Psychology Research Methods or Biology Lab
- 03-3xx, Advanced Biology
- 03-412, Topics in Research
- GenEd**
- Elective**

See reverse side for listing of all requirements and double-counting allowed with the GenEd.
General Education Program requirements (GenEd) in the Major are highlighted.

<table>
<thead>
<tr>
<th>General Education Program (GenEd)</th>
<th>Biology Courses for the Major</th>
<th>Calculus, Statistics, Physics, and Computer Science Courses for the Major</th>
<th>Chemistry Courses for the Major</th>
<th>Psychology Courses for the Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communicating 76-101 Interpretation &amp; Argument</td>
<td>see Modeling: Natural Sciences 03-121</td>
<td>see Modeling: Mathematical Sciences 21-120</td>
<td>see Addtnl GenEd 09-105</td>
<td>see Deciding 85-102</td>
</tr>
<tr>
<td>Reflecting 79-104 Global Histories</td>
<td>Topics in Research 03-411</td>
<td>see Modeling: Other 21-122</td>
<td>see Addtnl GenEd 09-106</td>
<td>Biological Foundations of Behavior 85-219</td>
</tr>
<tr>
<td>Modeling: Math. Sciences 21-120 Differential and Integral Calculus</td>
<td>Biochemistry I 03-231</td>
<td>General Biology Elective 03-xxx</td>
<td>see Deciding 36-247</td>
<td>Organic Chemistry I 09-217 or 09-219</td>
</tr>
<tr>
<td>Modeling: Natural Science 03-121 Modern Biology</td>
<td>Topics in Research 03-412</td>
<td>Experimental Design for Behavioral and Social Sciences 36-309</td>
<td>Laboratory I: Introduction to Chemical Analysis 09-221</td>
<td>Survey Psychology Course 85-211/213 or 85-221 or 85-241 or 85-251 9 units</td>
</tr>
<tr>
<td>Modeling: Other 21-122 Integration, Differential Equations and Approximation</td>
<td>Cell Biology 03-240</td>
<td>Advanced Biology Elective 03-3xx 9 units</td>
<td>Laboratory II: Organic Synthesis and Analysis 09-222</td>
<td>Research Methods in Psychology 85-310 or 85-320 or 85-340 9 units</td>
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<tr>
<td>Deciding 36-201 Statistical Reasoning</td>
<td>Genetics 03-330</td>
<td>Physics I for Science Students 33-111</td>
<td>Advanced Psychology or Biology Elective 85-3xx or 03-xxx 9 units</td>
<td>Advanced Psychology Elective 85-3xx 9 units</td>
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<td>Creating 9 units</td>
<td>Advanced Biology Elective 03-3xx 9 units</td>
<td>Principles of Computing 15-110</td>
<td>Additional Laboratory or Research Methods 85-310 or 85-320 or 85-340 or 03-344 or 03-345 9 units</td>
<td>Advanced Psychology Elective 85-3xx 9 units</td>
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<tr>
<td>Addtnl GenEd 09-105 Introduction to Modern Chemistry I</td>
<td>Experimental Techniques in Molecular Biology 03-343</td>
<td>Laboratory II: Organic Synthesis and Analysis 09-222</td>
<td>Advanced Psychology Elective 85-3xx 9 units</td>
<td>Addtnl GenEd 09-106 Modern Chemistry II</td>
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<tr>
<td>Freshman Seminar Computing @ Carnegie Mellon 99-101 or 99-102 3 units</td>
<td>Advanced Psychology or Biology Elective 03-xx 9 units</td>
<td>Laboratory II: Organic Synthesis and Analysis 09-222</td>
<td>Advanced Psychology Elective 85-3xx 9 units</td>
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