Mathematics and Psychology, BS

In the mathematics and psychology combined-major BS program, psychology and mathematics courses help lay the groundwork for strong basic training that seeks to prepare the student toward developing psychological models using mathematics.

Program Requirements
Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

Universitywide Requirements
All undergraduate students are required to complete the Universitywide Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements/).

NUpath Requirements
All undergraduate students are required to complete the NUpath Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/nupath/).

Mathematics Requirements

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<tr>
<td>MATH 1365</td>
<td>Introduction to Mathematical Reasoning</td>
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<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
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<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
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<td>MATH 2321</td>
<td>Calculus 3 for Science and Engineering</td>
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<td>MATH 2341</td>
<td>Differential Equations and Linear Algebra for Engineering</td>
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<td>MATH 2331</td>
<td>Linear Algebra</td>
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<td>MATH 3081</td>
<td>Probability and Statistics</td>
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Math Electives
Complete two courses in the following range that are not required in the requirements above:
MATH 3001 to MATH 5999

Psychology Requirements

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<td>PSYC 1101</td>
<td>Foundations of Psychology</td>
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Statistics
Complete the following course. Students who receive transfer credit for the Advanced Placement Statistics exam may complete the 1 SH PSYC 2315 course (requires department permission).
PSYC 2320 | Statistics in Psychological Research                      | 4-5   |

Area A (Personality/Social Basis of Behavior)
Complete two of the following:
PSYC 3400 | Personality                                               | 4     |
PSYC 3402 | Social Psychology                                          | 4     |
PSYC 3404 | Developmental Psychology                                   | 4     |
PSYC 3406 | Clinical Psychology and Mental Health                     | 4     |

Area B (Biological/Cognitive Basis of Behavior)
Complete two of the following:
PSYC 3450 | Learning and Motivation                                   | 4     |
PSYC 3452 | Sensation and Perception                                  | 4     |
PSYC 3458 | Biological Psychology                                     | 4     |
PSYC 3464 | Psychology of Language                                    | 4     |
PSYC 3466 | Cognition                                                 | 4     |

Psychology Laboratory
Complete one of the following:  

<table>
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<tr>
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<td>PSYC 4600</td>
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<td>PSYC 4606</td>
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<td>PSYC 4610</td>
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<td>PSYC 4612</td>
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<td>PSYC 4614</td>
<td>Laboratory in Social Psychology</td>
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<td>PSYC 4616</td>
<td>Laboratory in Personality</td>
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<td>PSYC 4622</td>
<td>Laboratory in Sensation and Perception</td>
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<td>PSYC 4624</td>
<td>Laboratory in Affective Science</td>
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<td>PSYC 4626</td>
<td>Laboratory in Life-Span Emotional Development</td>
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<tr>
<td>PSYC 4628</td>
<td>Laboratory in Developmental Psychology</td>
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**Psychology Capstone Requirement**

Complete one of the following:  

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<td>PSYC 4666</td>
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<td>PSYC 4668</td>
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<td>PSYC 4674</td>
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<td>PSYC 4676</td>
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**Psychology Elective**

Any PSYC course in the 3000 range and up  

4

**Integrative Requirement**

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<td>PSYC 4540</td>
<td>Quantitative Topics in Psychology and Behavioral Neuroscience</td>
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**Mathematics and Psychology Major Credit Requirement**

Complete 76 semester hours in the major.

**Program Requirement**

128 total semester hours required

**Plan of Study**

**Sample Plan of Study**

**Year 1**

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<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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Total Hours: 130