## B.S. in Information Science & Cognitive Psychology Checklist

### Courses for the Combined Major (97 SH)

#### CS Overview (1 SH)
- CS/IS Overview 1
  - CS 1200
- CS/IS Overview 2: Co-op Prep
  - CS 1210

#### CS Fundamentals* (4 courses +3 SH)
- Discrete Structures^1^2^3^4
  - CS 1800
- Recitation (0 SH)
  - CS 1801
- Fundamentals of CS 1^1^4
  - CS 2500
  - Lab (1 SH)
  - CS 2501
- Fundamentals of CS 2^2^A^2^B^4
  - CS 2510
  - Lab (1 SH)
  - CS 2511
- Logic & Computation^A^B
  - CS 2800
  - Lab (1 SH)
  - CS 2801

#### CS Requirements (3 courses)
- Object-Oriented Design^C^D^E^F^G^H^I^J^K
  - CS 3500
- Artificial Intelligence^D^E^F^G^H^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
  - CS 4100
- Algorithms and Data^C^D^E^F^G^H^I^J^K
  - CS 4800

#### Information Science (5 courses +1 SH)
- Principles of IS^6^7^8^9^10^11
  - IS 2000
- Information System Design & Development^E^G^H^I^J^K
  - IS 3500
- Human Computer Interaction^E^F^G^H^I^J^K
  - IS 4300
  - IS 4800
- IS Senior Project^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
  - IS 4900

#### Psychology Requirements (4 courses)
- Foundations of Psychology^5^6^7^8^9^10^11
  - PSYC 1101
- Stats in Psych Research^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
  - PSYC 2320
- Psychology of Language^M
  - PSYC 3464
- Cognition^M
  - PSYC 3466

#### Laboratory in Psychology (1 course)
- One of the following:
  - Lab in Psycholinguisitics^H^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
    - PSYC 4610
  - Lab in Cognition^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
    - PSYC 4612
    - PSYC 4622

### Advanced Psychology (1 course)
- One of the following:
  - Sensation & Perception^M
    - PSYC 3452
  - Biological Psychology^M
    - PSYC 3458

### Seminar in Psychology (1 course)
- One of the following:
  - Sem in Psycholinguisitics^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
    - PSYC 4658
  - Sem in Cognition^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
    - PSYC 4660
    - PSYC 4668
  - Sem in Cognitive Neuroscience^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
    - PSYC 4674

### Psychology Electives (2 courses)
- (not counted elsewhere; see list of choices below)

### Additional Courses (2 courses)
- Calculus 1 for Science/Eng^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
  - MATH 1341
- Computing & Social Issues
  - (see reverse for list of choices)

### Psychology Elective Course List

- PSYC 3402 Social Psychology^M
- PSYC 3450 Learning & Motivation^M
- PSYC 3451 Learning Princ & Behavior Analysis^M
- PSYC 3452 Sensation & Perception^M
- PSYC 3458 Biological Psychology^M
- PSYC 4512 Neuropsychology^R
- PSYC 4520 Language and the Brain^O
- PSYC 4522 Psychology of Reading^O
- PSYC 4524 Cognitive Development^S
- PSYC 4526 Categorization & Reasoning^O
- PSYC 4610 Lab in Psycholinguistics^H^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
- PSYC 4612 Lab in Cognition^H^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
- PSYC 4622 Lab in Sensation & Perception^H^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
- PSYC 4624 Lab in Health & Behavior^H^I^J^K^L^M^N^O^P^Q^R^S^T^U^V^W^X^Y^Z
- PSYC 4652 Sem in Ethics in Psychology^N^P^Q^R^S^T^U^V^W^X^Y^Z
- PSYC 4656 Sem in Psycholinguistics^N^P^Q^R^S^T^U^V^W^X^Y^Z
- PSYC 4660 Sem in Cognition^N^P^Q^R^S^T^U^V^W^X^Y^Z
- PSYC 4668 Sem in Sensation & Perception^N^P^Q^R^S^T^U^V^W^X^Y^Z
- PSYC 4674 Sem in Cognitive Neuroscience^N^P^Q^R^S^T^U^V^W^X^Y^Z
- PSYC 4970 Junior/Senior Honors Project 1^U^V^W^X^Y^Z
- PSYC 4971 Junior/Senior Honors Project 2^U^V^W^X^Y^Z
- PSYC 4991 Directed Study Research^V

See reverse for notes on prerequisites (letters) and for covered NUpath categories (numbers).

(rev'd 06/15/16) Effective Fall 2016
### B.S. in Information Science & Cognitive Psychology Checklist

**NUpath Requirements** (24 SH)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>See <a href="http://www.northeastern.edu/core/">http://www.northeastern.edu/core/</a> for a complete description of the NU Core Curriculum.</strong></td>
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</tr>
<tr>
<td>Many NUpath requirements are fulfilled by courses for the Major, as indicated (square brackets).</td>
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<tr>
<td><strong>1. Natural &amp; Designed World</strong></td>
<td>[CS 2500]</td>
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<tr>
<td><strong>2. Creative Expression &amp; Innovation</strong></td>
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<td><strong>3. Interpreting Culture</strong></td>
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<td><strong>4. Formal &amp; Quantitative Reasoning</strong></td>
<td>[CS 2500]</td>
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<tr>
<td><strong>5. Societies &amp; Institutions</strong></td>
<td>[PSYC 1101]</td>
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<td><strong>6. Analyzing &amp; Using Data</strong></td>
<td>[PSYC 2320]</td>
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<td><strong>7. Differences &amp; Diversity</strong></td>
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<td><strong>8. Ethical Reasoning</strong></td>
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<td><strong>9. Writing Across Audiences &amp; Genres</strong></td>
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<tr>
<td>College Writing</td>
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<tr>
<td>Advanced Writing in the Disciplines</td>
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<tr>
<td>Writing-Intensive in the Major 1</td>
<td>[CS 4100]</td>
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<tr>
<td>Writing-Intensive in the Major 2</td>
<td>[PSYC Lab]</td>
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<tr>
<td><strong>10. Integration of Experience</strong></td>
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<tr>
<td>See department for approved courses and other options. Courses covering this requirement can also typically cover other major requirements.</td>
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<tr>
<td><strong>11. Capstone Experience</strong></td>
<td>[PSYC Seminar]</td>
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</tbody>
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**Free Electives** (12 SH)

Complete additional courses to total 133 SH.

### Computing and Social Issues Course List

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ANTH 3418</td>
<td>Wired/Unwired: Cybercultures &amp; Technopolitics</td>
</tr>
<tr>
<td>IA 5240</td>
<td>Cyberlaw: Privacy, Ethics, &amp; Digital Rights</td>
</tr>
<tr>
<td>PHIL 1145</td>
<td>Technology &amp; Human Values</td>
</tr>
<tr>
<td>SOCL 1280</td>
<td>The 21st Century Workplace</td>
</tr>
<tr>
<td>SOCL 3485</td>
<td>Environment, Tech, &amp; Society</td>
</tr>
<tr>
<td>SOCL 4528</td>
<td>Computers and Society</td>
</tr>
</tbody>
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### Prerequisite Notes

- **A** CS 2500
- **B** CS 1800, MATH 1365, or MATH 2310
- **C** CS 1500 or CS 2510
- **D** CS 2800
- **E** CS 3500
- **G** IS 2000
- **H** ENGW 1111
- **I** IS 3500
- **J** IS 4800 or CS 6350
- **K** ECON 2350, MATH 2280, MATH 3081, MGSC 2301, or PSYC 2320
- **L** IS 4800 or CS 6350
- **M** PSYC 1101
- **N** PSYC 2320
- **O** PSYC 3464 or PSYC 3466
- **P** Junior or Senior standing
- **Q** PSYC 3452
- **R** PSYC 3458
- **S** PSYC 3404 or PSYC 3466
- **T** Prior professional-related experience (e.g., co-op, directed study)
- **U** Honors Program participation/eligibility
- **V** Prior approval
- **W** ANTH 1101, CRIM 1100, HUSV 1101, INTL 1101, POLS 1140, POLS 1160, SOCL 1101, or WMNS 1103
- **X** Sophomore standing (or above)

### Other Notes

- ***All CS Fundamentals courses and MATH 1341 must be completed with a C- grade or better.**
- ****Integrative course