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

## Courses for the Combined Major

### CS Overview

(1-2 SH)
- Freshman and freshman transfers (2 SH):
  - CS/IS Overview 1: CS 1200
  - CS/IS Overview 2: CS 1210
- Co-op Preparation
- Upper-level transfers (1 SH):
  - CS/IS Co-op Prep: CS 1220

### CS Fundamentals*

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

### CS Requirements

(5+ courses)
- Object-Oriented Design\(^C\): CS 3500
- Artificial Intelligence\(^D,E,3,++\): CS 4100
- Software Development\(^E,F,3\): CS 4500
- Algorithms and Data\(^G,2\): CS 3800
- Human Computer Interaction\(^E,++\): IS 4300
- Senior Seminar\(^G\) (1 SH): CS 4000

### CS Upper-Division Electives

(2 courses)
- Two courses from the following:
  - CS 2600-7999 (excl CS 5010)
  - IS 2000-7999 (excl IS 4900)
- (including, with approval, directed study, project study, and graduate courses)

### Psychology Requirements

(4 courses)
- Foundations of Psychology: PSYC 1101
- Stats in Psych Research\(^H,2\): PSYC 2320
- Psychology of Language\(^H\): PSYC 3464
- Cognition\(^H\): PSYC 3466

### Advanced Psychology

(1 course)
- One of the following:
  - Sensatn & Perception\(^H\): PSYC 3452
  - Biological Psych\(^H\): PSYC 3458

---

See reverse for notes on prerequisites (letters) and NU Core coverage (numbers).

(rev'd 04/14/14)
# B.S. in Computer Science & Cognitive Psychology Checklist

## NU Core Requirements (20 SH)

See [www.northeastern.edu/registrar/nucore.html](http://www.northeastern.edu/registrar/nucore.html) for a complete description of the Core.

Courses in square brackets are typically counted for the major as well as in the indicated NU Core category. See right column for additional NU Core coverage notes.

### Knowledge Domains

<table>
<thead>
<tr>
<th>Domain</th>
<th>Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts/Humanities (Level 1)</td>
<td></td>
</tr>
<tr>
<td>Social Science (Level 1)</td>
<td>[PSYC 1101]</td>
</tr>
<tr>
<td>Science/Technology (Level 1)</td>
<td>[CS 2500]</td>
</tr>
<tr>
<td>Level 2 Non-Major</td>
<td></td>
</tr>
</tbody>
</table>

### Writing-Intensive Courses

- College Writing: ENGW 1111
- Advanced Writing in the Disciplines[^5,^6]: ENGW 3301 or ENGW 3302
- Writing-Intensive in the Major 1: [CS 4100]
- Writing-Intensive in the Major 2: [PSYC Lab]

### Mathematical/Analytical Thinking

<table>
<thead>
<tr>
<th>Level</th>
<th>Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>[CS 1800]</td>
</tr>
<tr>
<td>Level 2</td>
<td>[PSYC 2320]</td>
</tr>
</tbody>
</table>

### Comparative Study of Cultures

See department for approved courses and other options. Courses covering this requirement can also typically cover other major requirements.

### Capstone

[PSYC Seminar]

### Experiential Education

See department for approved courses and other options. Courses covering this requirement can also typically cover other major requirements.

## Free Electives (20 SH)

Complete additional courses to total 133 SH.

## Prerequisite Notes

- CS 2500
- CS 1800, MATH 1365, or MATH 2310
- CS 1500 or CS 2510
- CS 2800
- CS 3500
- ENGW 1111
- Senior standing
- PSYC 1101
- PSYC 2320
- PSYC 3464 or PSYC 3466
- Junior or Senior standing
- PSYC 3452
- PSYC 3458
- PSYC 3404 or PSYC 3466
- Prior professional-related experience (e.g., co-op, directed study)
- Honors Program participation/eligibility
- Prior approval
- 56+ SH completed

## Additional NU Core Coverage Notes

[^1] Fulfills NU Core Math/Analytical Thinking Level 1
[^2] Fulfills NU Core Math/Analytical Thinking Level 2
[^3] Fulfills NU Core Writing Intensive in the Major

## Other Notes

*All CS Fundamental courses must be completed with a grade of C- or higher.
**Integrative course