### COGNITIVE SCIENCE MAJOR: LANGUAGE TRACK

1. **Foundation Requirement in Cognitive Science** (185:201; 4cr)
2. **Logical and Statistical Reasoning (One Course from Each Column)**

<table>
<thead>
<tr>
<th>Computational/Logical Reasoning</th>
<th>Statistical Reasoning</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Introduction to Logic (730:201; 3cr)</td>
<td>• Methods in Cognitive Science (185:320; 3cr)</td>
</tr>
<tr>
<td>• Introduction to Logic (730:202; 4cr)</td>
<td>• Discrete Structures II (198:206; 4cr)</td>
</tr>
<tr>
<td>• Computing for Math and the Sciences (198:107; 3cr)</td>
<td>• Calculus I (640:135; 4cr) or Honors (640:191; 4cr)</td>
</tr>
<tr>
<td>• Introduction to Discrete Structures I (198:205; 4cr)</td>
<td>• Calculus II (640:136; 4cr) or Honors (640:192; 4cr)</td>
</tr>
<tr>
<td>• Mathematical Logic (640:461; 3cr)</td>
<td>• Calculus I for Mathematical and Physical (640:151; 4cr)</td>
</tr>
<tr>
<td>• Introduction to Mathematical Reasoning (640:300; 3cr).</td>
<td>• Calculus I for Mathematical and Physical (640:152; 4cr)</td>
</tr>
</tbody>
</table>

3. **Distributional requirements (One Course from Three Columns)**

<table>
<thead>
<tr>
<th>Cognitive Neuroscience</th>
<th>Decision Making</th>
<th>Language</th>
<th>Minds, Machines, &amp; Computation</th>
<th>Perception</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Brain, Mind and Behavior (119:195; 3cr)</td>
<td>• Cognition and Decision Making (185:301; 4cr)</td>
<td>• Meaning and Numbering (185:330; 3cr)</td>
<td>• The Concept of ‘Concepts’ in Cognitive Science (185:310; 3cr)</td>
<td>• Design and Analysis of Computer Algorithms (198:344; 4cr)</td>
</tr>
<tr>
<td>• Fundamentals of Neurobiology (146:245; 3cr; for CBN majors)</td>
<td>• Intermediate Microeconomics Analysis (220:320; 3cr)</td>
<td>• Language and Cognition (185:410; 4cr)</td>
<td>• Introduction to Computer Science (198:111; 4cr) or Introduction to Artificial Intelligence (198:440, 4cr)</td>
<td>• Sensation &amp; Perception (830:301; 3cr)</td>
</tr>
<tr>
<td>• Essentials of Cell Biology &amp; Neuroscience (146:295; 3cr)</td>
<td></td>
<td>• Introduction to Linguistic Theory (615:201; 3cr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Data Structures (198:112; 4cr)</td>
<td>• Philosophy of Language (730:210; 3cr)</td>
<td></td>
<td>• Minds, Machines and Persons (730:329; 3cr)</td>
<td></td>
</tr>
<tr>
<td>• Physiological Psychology (830:313; 3cr)</td>
<td>• Psychology of Language (830:351; 3cr)</td>
<td></td>
<td>• Philosophical Aspects of Cognitive Science (730:360; 3cr)</td>
<td></td>
</tr>
</tbody>
</table>

4. **Capstone Course (One Course from the Following)**

| Advanced Topics in Cognitive Science (185:411; 4cr) | Research in Cognitive Science (185:395; 3cr) |

Revised 12/13/17
## COGNITIVE SCIENCE MAJOR: LANGUAGE TRACK

### 5. Electives (Three Courses from the Following)

- **One from following:**
  - Syntax (615:305; 3cr)
  - Phonology (615:315; 3cr)
  - Semantics (615:325; 3cr)
  - Pragmatics (615:350; 3cr)

- **One from following:**
  - Meaning and Numbering (185:330; 3cr)
  - Philosophy of Language (730:420; 3cr)
  - Semantics of Language (730:421; 3cr)
  - Psychology of Language (830:313 or 615:371; 3cr)
  - Language Acquisition (830:353; 3 or 615:433; 3cr)
  - Language Acquisition (830:484; 3cr)

- **Additional electives:**
  - Language and Cognition (185:410; 4cr)
  - Introduction to French Syntax (420:333; 3cr)
  - Historical Linguistics (615:330; 3cr)
  - Morphology (615:411; 3cr)
  - Evolution of the Human Language Capacity (615:415; 3cr)
  - Language Typology (615:421; 3cr)
  - Experimental Methodologies in Language Acquisition (615:435; 3cr)
  - Linguistics and Cognitive Science (615:441; 3cr)
  - Phonetics (615:451; 3cr)
  - Current Issues in Second Language Acquisition (940:420; 3cr)
  - Spanish Syntax (940:421; 3cr)
  - Spanish Semantics (940:422; 3cr)
  - Spanish Phonetics and Phonology (940:362; 3cr)
  - Bilingualism in the Spanish-Speaking World (940:363; 3cr)

### 6. Additional Requirements

- **Minimum of 36 credits**
- **Four Cognitive Science Courses**
- **Grades of C or better must be earned in all courses counted towards the major.**
- **Two thirds of total credits must be from School of Arts and Sciences**
- **Two thirds of total credits must be 300 level+**
- **No more than 4 courses from Philosophy or Computer Science**
- **No more than 3 courses from any other department**

Students may declare the major using myMajor after taking Intro to Cog Sci (185:201), 1 Computational/Logical course, and 1 Statistical Reasoning course.
COGNITIVE SCIENCE MAJOR: LANGUAGE TRACK

Questions? E-mail: undergrad@ruccs.rutgers.edu

Revised 12/13/17