# 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 Numering (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>• Minds, Machines and Persons (730:329; 3cr)</td>
<td></td>
</tr>
<tr>
<td>• Data Structures (198:112, 4cr)</td>
<td></td>
<td>• Philosophy of Language (730:210; 3cr)</td>
<td>• Philosophical Aspects of Cognitive Science (730:360; 3cr)</td>
<td></td>
</tr>
<tr>
<td>• Physiological Psychology (830:313; 3cr)</td>
<td></td>
<td>• Psychology of Language (830:351; 3cr)</td>
<td></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) | Honors Research (185:495;3cr) |
# 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**
  - Research Methods in Cognitive Science (185:320; 3cr)
  - 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

Note: Courses used to satisfy the Distribution requirement cannot also be used to satisfy the Track elective requirements.

Students may declare the major using my Major after taking Intro to Cog Sci (185:201), one Computational/Logical course, and one Statistical Reasoning course.

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

---

Revised 10/15/2018