Language, Mind & Brain
LING/COGST 2264

instructor:    Dr. John Hale
office hours: listed at http://courses.cit.cornell.edu/jth99/
course number: LING 1100-101
meeting time: Tuesdays and Thursdays 10:10am–11:25am
room:    Morrill Hall 102
wiki:    find on http://confluence.cornell.edu under space key lmbfall2016

What this course is about
Language, Mind & Brain is a survey of neurolinguistics. Viewing the mind as a computer, we ask how the thing inside our skull gives us the ability to converse so freely. This investigation naturally involves ideas from many different subfields of linguistics, not to mention brain imaging, neuropsychology and artificial intelligence.

Students from all backgrounds are welcome; there are no prerequisites. Successful students emerge with an ability to understand scientific results at the forefront of this exciting area.

Tentative Schedule

**August 23**   language: when we use it, our brains compute
readings Language Files 1.1 and 1.2

**August 30th, September 1st**   what’s in there: lobes and neurons
readings K chapter 1

**Sept 6th,8th**   how neuroimaging works
readings K chapter 2 especially pages 34–35 and 44–54

**Sept 13th**   CMRIF tour

**Sept 15,20**   aphasia syndromes
readings K chapter 3. Excerpts from Ackerman.

**Sept 22**   lateralization
readings K chapter 9

**Sept 27th,29th**   dual streams model of speech perception
readings K chapter 5 especially pp111–114

**Oct 4th,6th**   phonetic coding as an example representation in cognitive science

**Fall Break**

**Oct 13th**   reading and the visual wordform area
readings readings K chapter 8 through page 226
**Oct 18th**  syntax in comprehension  
Language File 5.2 see also K pp392–395

**Oct 20th**  parsing algorithms

**Oct 25th, 27th**  a brain network for comprehension  
readings K chapter 15 through page 429

**Nov 1st, 3rd**  naturalistic listening  
readings Fyshe et al. (To Appear) and Huth et al. (2016)

**Nov 8th, 10th**  ambiguity resolution across languages  
readings K pages 60–63 then 459–469

**Nov 15**  NO CLASS

**Nov 17th**  decoding composed representations  
readings K pp54-55 then Frankland and Greene (2015)

**Nov 22**  catching brain regions in action  
readings Bemis and Pylkkänen (2011, 2013)

**Nov 29th, Dec 1st**  controversy over Broca’s  
readings Zaccarella and Friederici (2015); Rogalsky et al. (2015)

**Grades**

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<thead>
<tr>
<th>Percentage</th>
<th>Component</th>
<th>Description</th>
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<tbody>
<tr>
<td>25%</td>
<td>participation</td>
<td>degree of engagement during in-class activities and discussion</td>
</tr>
<tr>
<td>25%</td>
<td>quizzes</td>
<td>brain anatomy, grammar, parsing</td>
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<tr>
<td>25%</td>
<td>essays</td>
<td>two-page essays arguing one side or another of a scientific controversy</td>
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<tr>
<td>25%</td>
<td>final exam</td>
<td>mix of essay and quiz-type questions</td>
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**Academic Integrity**

Participants shall abide by the Cornell Code of Academic Integrity as described at  

http://cuinfo.cornell.edu/aic.cfm

**References**


