LIN 6796-18B8: COGNITIVE NEUROSCIENCE OF LANGUAGE
SYLLABUS - SPRING 2014

CLASSROOM: MAT 3
TIME: M 8-10th : 3-6 pm

Instructor: Dr. Edith Kaan
Office: 4127 Turlington Hall.
Office Hours (subject to change): M 1:55-2:45; R 12:50-2:45pm and by appointment
Contact info: kaan@ufl.edu
Course website: on Sakai, lss.at.ufl.edu

Prereqs:
LIN graduate core course, or equivalent in other disciplines. Please contact the instructor for permission.

Aims of this course:
• To learn how brain imaging techniques can be applied to research on language processing and acquisition, and the potential pitfalls of doing so
• To learn to evaluate brain imaging studies of language in terms of their scientific and methodological aspects
• To improve oral presentation skills

Assignments:
Your grades will be based on: on paper presentations (20 %), active participation in class and timely postings of discussion questions (5 %), three critical summaries (30 %), and a final written assignment (45 %).

Paper presentations:
• Approximately 15 minutes; one paper per presenter per session. The number of presentations over the entire course depends on enrollment.
• Powerpoint; put PPT or Prezi file on a memory key, put on Dropbox, or bring your own computer;
• Last slide has points for discussion, including questions from classmates (see below)
• Will be followed by a 10-15 minute group discussion
• Mail a copy of your slides to kaan@ufl.edu before or right after class.
• Please do not hesitate to contact Dr. Kaan if you have questions when preparing your presentation

Active participation:
• Contributing to discussion in class
• Posting at least one critical question/discussion point for each paper on the “Discussion” page on Sakai by 8pm the night before class (preferably sooner).

Summaries:
• Summaries are due on these three topics:
  Summary i: brain imaging methods, N400, speech perception or visual word form area
  Summary ii: morphology, syntax, motor theory, or production
Summary iii: second-language lexicon, second-language sentence processing, or cognitive control

• For each of these topics:
  (1) write a critical summary of one of the required readings (this needs to be a different reading from the one you presented in class)
  (2) write a summary of an article that is one link away from this or another required reading on that topic, i.e., a paper that cites this required reading or is cited by this required reading.

• Summaries should include how the articles relate to each other and what we can learn from considering the studies together.

• Please use your own words, and minimize direct quotes to a phrase or less. Reference other work appropriately, preferably using APA guidelines.

• To be handed in through Sakai, on or before: February 10, March 17, and April 17.

Final written assignment:

• About 15 pages long, double spaced, including references
• APA formatting
• Structured like a grant proposal
• Contains an overview of the literature on a selected psycho/neurolinguistic topic
• Contains a proposal for a new, original experiment using the brain imaging methods discussed in class, or patients with brain damage, to investigate language in the brain.
• Topic should be chosen before March 17 (each will meet with Dr. Kaan around that time)
• Draft handed in before April 7 (Sakai).
• Final version due: April 28, 2013 (Sakai)
• Students will give a brief presentation of their proposals in the last class

Grading:

A  = 90-100  B  = 80-83.9  C  = 70-73.9  D  = 60-63.9
A- = 87-89.9  B- = 77-79.9  C- = 67-69.9  D- = 57-59.9
B+ = 84-86.9  C+ = 74-76.9  D+ = 64-66.9  E  = < 56

For UF grading policies for assigning grade points, see:
http://gradcatalog.ufl.edu/content.php?catoid=5&navoid=1054#grades.

Policies:

• Please turn off all cell phones.
• Students are required to hand in all assignments and tests before the class period they are due. Please contact the instructor in advance if you need to skip a class, or cannot make a deadline. Please also make sure you have at least one external backup of the assignments you make for this class. Computer problems will not be considered a valid excuse for missing deadlines.
• If you are absent for longer than 15 minutes of more than three class periods without a documented medical or academic excuse, one point will be deducted from your final score for each additional absence. There will be no make-up exams or assignments without a documented medical excuse
• Academic Honesty: See the University of Florida Honor Code and the academic honesty guidelines at http://gradecatalog.ufl.edu/content.php?catoid=5&navoid=1054#Academic_Honesty

Accommodations for students with disabilities:
Students requesting classroom accommodation must first register with the Dean of Students Office: http://www.dso.ufl.edu/drc/. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. The Disability Resource Center is located in 001 Building 0020 (Reid Hall). Their phone number is 392-8565.
Course website
Class lectures and other useful information will be made available on the course website (lss.at.ufl.edu). An interactive atlas for brain anatomy can be found at: http://www9.biostr.washington.edu/da.html.

Readings:
The list of readings can be found below. Readings can be obtained from the UF library website (e-journals). In some cases, readings are available through e-reserves, or a hardcopy will be made available for you to xerox. Background readings pertain to the lecture and are optional; Discussion readings are required. NOTE: READINGS AND SCHEDULE BELOW ARE SUBJECT TO CHANGE!
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<tr>
<th>Week/ date</th>
<th>Discussions and required readings</th>
<th>Lecture</th>
<th>Background readings related to lecture</th>
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| W 4 – Jan 27 | **Example presentation: N400**<br>**Other required readings:**
left inferior frontal cortex with transcranial magnetic stimulation. *Journal of Neuroscience*, 25, 8010–8016.

<table>
<thead>
<tr>
<th>W 5 – Feb 3</th>
<th><strong>Discussion: Speech perception</strong></th>
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<th><strong>Morphology: Summary I due</strong></th>
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### Discussion: syntax


### Motor theory of speech perception


### Discussion: Production


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<th>Discussion: Second-language lexicon</th>
<th>Second-language sentence processing</th>
<th>Cognitive control and language processing</th>
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### W 14– Apr 7

**Discussion: Cognitive control**


**Language and genes; Draft of paper due**


### W15 – Apr 17

**Discussion: Genes**


**Project presentations**

### Apr 16– Apr 21

**Project presentations**

### Apr 28

**Final version of paper due**