Linguistics 641 -- Advanced Phonetics -- Fall, 2011 (#4222)  
(a.k.a. Laboratory Phonology)

Meetings:  
Tues. & Thurs., 1:00 – 2:15; Owen 102  
Office Hours: Tues.: 10:00-12:00

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Course Goal:  Advanced Phonetics is intended to provide a foundation for students who have had basic training in phonetics to pursue the quantitative study of phonology in the context of human interaction, and of speech and perception in the context of language. Specific issues to be addressed are indicated on the schedule below. This course will aid your understanding of the relationship between speech and language, and prepare you to do your own independent experimental research into a topic of your choice. You need not have taken L541, as long as you have background in phonetics equivalent to an introductory course.

Texts:  The texts to be used in this course come from the published literature in the field. The field of phonetics is of such a diverse nature that the critical articles have not been collected into a single volume. (Besides, we all think different things are important.) All of the readings are available online, either through e-reserves (http://ereserves.indiana.edu/eres/default.aspx, take the top link, search under my name (or L641), and enter the password I’ll give to you in class). Some more recent articles can be downloaded from their publishers for free from an IU i.p. address. We’ll update the availability of articles as we go.

Requirements:

-Reading and discussion: There will be readings assigned for a majority of class periods. You should do the reading before the period, so you can follow the presentation in class and contribute to the discussion of the readings. These discussions will be the most critical part in your developing a productive grasp of the issues involved in doing phonetic research. For the record, I will keep track of who is contributing and asking questions in class. Expect yourself to do so at least 75% of the meetings.

-Nonce project: Throughout the first two-thirds of the semester, there will be a series of small projects relating to the issues being discussed at the time. Projects will proceed from writing a review of some aspect of the papers, to applying this review to potentially testable cases, to working through a small corpus of data and presenting the results of the analysis, to relating the data and analysis to the original issue. This meta-project and each of the assignments will develop as we go through the course.

-Final project: The final aspect of the course will require you to design your own experiment (or begin running your own experiment, if you have already designed it) to address some issue of interest to you. Possibilities for topics are myriad, since our understanding of speech and language is not quite complete. (!) We will work this out individually as necessary, but expect a prospectus laying out what is to be done this semester to be due by the middle point of the semester (October 14). We will also meet as a class toward the end of the semester to present each project.

Grading:

Grading will be determined in the following manner:

Final Project: 40%  
Class presentation: 10%  
Prospectus: 10%  
Written report: 20%  
Miniature Projects & Class Involvement: 60%
**Schedule:** Following is a tentative outline of topics and a schedule, along with readings for each day. Underlined articles are those to be discussed in class. Others provide additional background. Numbers at the beginning of each line indicate the week and the day in the week (.1 = Tuesday; .2 = Thursday). Presentations will be scheduled in class for the last weeks of the semester.

1.1: Introduction.

**Section 1: Composition and contrast: What are speech sounds made of?**

1.2: Jakobson, Fant and Halle, 1953. Contrast
2.1: Browman and Goldstein 1990. Gestural Phonology (Lofqvist, 1990)
3.2: Pause LH%

**Section 2: Variation: Everything varies, and the variation is the interesting part.**

5.2: Pause. LL%

**Section 4: Prosody with a little P: Organizing speech sounds**

6.2: Browman & Goldstein, 1989; Mattingly, 1981: Articulatory Tiers (Boyce, 1993)
7.2: Pause. (Project Prospectuses Completed.)
8.2: Pause. LL%

**Section 5: Phonological variation: What corresponds to rules?**

9.1: Jun, 1995: Prosodic Domains and Rules
9.2: Lindblom, 1963: Undershoot and Reduction (Summers, 1987; van Santen, )

**Section 6: Prosody with a big P: Higher level organization**


**Section 7: Historical Pressures**

12.1: Stevens 1989: Quantal Theory
14.1: Pause and collect thoughts. LL%

**Weeks 14 – 16:** Presentations. HH%
References:

Following are the references cited in the schedule. All of these will be available in e-reserves. Ones marked with * are available for download to IU machines through http://www.sciencedirect.com.


