

Phonetics

Lecture sections: Ballantine Hall 221

M,W, F: 10:10 – 11:00

Instructor: Ken de Jong, Memorial Hall 404,
ph # 856-1307, email: KDEJONG@indiana.edu
Office Hours: Tuesday, 11:30 – 1:00; Thursday, 1:00 – 2:00

Texts: Peter Ladefoged, *A Course in Phonetics, 5th ed.*, Thomson Wadsworth,
2006
Material posted at: <http://www.indiana.edu/~1306>

Supplementary Texts: You are not required to acquire these texts. I just mention them because they are excellent references.

Gloria Borden, Katherine Harris, and Lawrence Raphael, *Speech Science
Primer, 3rd ed.*, Williams and Wilkins, 1994.

Keith Johnson, *Acoustic and Auditory Phonetics*, Blackwell, 1997

Peter Ladefoged and Ian Maddieson, *The Sounds of the World's
Languages*, Blackwell, 1997.

Geoffrey Pullum and William Ladusaw, *Phonetic Symbol Guide*, U. of
Chicago, 1986.

General Info.

Phonetics is a course designed to introduce students to various facets of phonetic investigation. We hope to cover the basics of speech production and speech acoustics as they are relevant to the expression of linguistic structures. Along the way, we hope to develop some basic skills for linguistic investigation of speech behavior. The first part of the course will focus on the segmental analysis of speech, and we will work on the ability to analyze speech by means of the IPA (International Phonetic Alphabet). The later part of the course will focus on developing an understanding of various physical aspects of speech.

Requirements:

1) Assignments. There will be weekly homework assignments. These assignments will entail performing various analyses, beginning with transcriptional analyses of speech. Other parts of the assignments will involve performing various analytic exercises related to understanding physical aspects of speech, and perhaps some additional exercises for thinking about various kinds of data related to subject matter covered in the lectures. The size of assignments will vary from time-to-time, though you can expect to have a consistent amount of work involved throughout the semester. Each assignment will have a due date; unless otherwise noted, work will be expected to be turned in at that time. Late assignments will be accepted for half credit, but not later than a week after the due date. While consulting with one another is good, you must do your own analysis and write-up; copied (identical) homework will not be given credit.

2) Exams. There will be two mid-terms and a final exam on the dates marked below on the schedule of events. These exams will investigate your grasp of the lecture material.

3) Practical Exams. There will be two short transcription exams, whose dates also are marked below.

Grade calculation will be based on the following formula

Assignments	-- 30%	Mid-term	-- 2 X 15%
Transcription exams	-- 2 X 7.5%	Final	-- 25%

Calendar. Below is a calendar for the term, just to give you a larger picture of how the course will go. Note especially exam dates in bold face, which are fixed. Topics covered each day are subject to change.

Week/Beg nning	Monday	Wednesday	Friday
1 January 8	Introduction and Logistics	Physico-linguistics Read: Ladefoged, Ch. 1	Representing Dynamic Events
2 January 15	NO CLASSES	Transcription System; Consonants Read: Ladefoged, Chs. 2 & 3	Hardware
3 January 22	Transcribing Vowels Read: Ladefoged, Ch. 4	Vowels vs. Consonants	Problems with Vowel Transcription
4 January 29	Vowel Articulation and Acoustics Read: Ch. 9 (pp. 211 – 219)	Running (away from?) Speech	Details Details, How many details?
5 February 5	Principles of the IPA.	Universality, Distinctiveness, and Segmentalism	Production and Transcription
6 February 12	Transcription as Prediction Funny Obstruents Read: Ladefoged, Ch. 7	Transcription Exam 1	MID-TERM I
7 February 19	More Funny Obstruents	Funny Sonorants	Working on Transcription
8 February 26	Aerodynamics Hardware in the Boiler-room - > Getting Force	Muscular Coordination Laryngeal Hardware -> Making it Audible	Voicing & Glottally Controlled Contrasts Read: Ladefoged, Ch. 6
9 March 5	Aerodynamics & Glottal Contrasts	Airstream Mechanisms	Practical IPA
SPRING BREAK			
10 March 19	Prosody Read: Ladefoged, Chs. 5 & 10 Notes on Intonation & Notes on the IPA	Physical, Auditory, and Linguistics Properties	Using Fundamental Frequency
11 March 26	Intonation and Other Marginalized Things	Transcription Exam 2	MID-TERM II
12 April 2	Stress & Quantity	Dynamic Stuff	Basic Acoustics Waves, Harmonics, and
13 April 9	Source-Filter Theory Read: Ladefoged, Ch. 8	Estimating Aspects of the Source	Estimating Aspects of the Filter
14 April 16	Vowel Acoustics Read: Ladefoged, Ch. 9	From Vowels to Consonants	More on Consonant Acoustics
15 April 23	Articulation & Acoustics	Showing off with Spectrograms	Review
Exam			May 4 10:15: FINAL EXAM

