

Spring 2016

Syllabus: 10420LING590800 **Experimental Phonetics**

Class: Th 2:20-5:20, HSS Building, B305

Instructor: Yueh-chin Chang
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TA: T.B.A.

Office hours: By appointment

Prerequisites: An intro to Phonetics class, or permission of instructor

Required texts: Pickett, James M. 1999. *The Acoustics of Speech Communication: Fundamentals, Speech Perception Theory, and Technology*. Needham Heights: Allyn & Bacon.

References: Gick, Bryan, Ian Wilson, and Donald Derrick. 2013. *Articulatory Phonetics*. Hoboken, NJ: Wiley-Blackwell.

Johnson, Keith. 2011. *Acoustic and Auditory Phonetics* (3rd edition). Hoboken, NJ: Wiley-Blackwell.

Course description:

This course is an introduction to fundamental ideas/aspects of acoustic phonetics and speech perception theory, with an emphasis on the essential skills of doing acoustic analysis and phonetic/perception experiment.

Course requirements:

Assigned readings

Class participation

In-class presentation (10%)

Homework (40%: Four (4) homework assignments: i) vowel, ii) consonant, iii) tone, and iv) perception)

Term project (50%) (Please come make an appointment with us by the end of April)

Schedule of topics (subject to revision)

WEEK	DATE	TOPIC	READING
Week 1	Feb 18	Orientation	
Week 2	Feb 25	General introduction	Chaps.1&2 (YCC)
Week 3	Mar 3	Vowel shaping and vowel formants	Chap. 3 (YCC)
Week 4	Mar 10	Sound source and the spectra	Chap. 4 & Johnson's (2011) Chap 6 (YCC&FF)
Week 5	Mar 17	Consonant features	Chap. 6 (YCC&FF)
Week 6	Mar 24	Consonants: Nasal, stop, and fricative	Chap. 7 (YCC)
Week 7	Mar 31	Consonants: the voiced-unvoiced contrast/place of articulation	Chaps. 8&9 (YCC)
Week 8	Apr 7	Wrap-up; Interim report on term project	
Week 9	Apr 14	Tone, intonation	Chaps. 5&10(FF)
Week 10	Apr 21	Perception of vowel	Chap. 11 (FF)
Week 11	Apr 28	Perception of consonants	Chap. 12 (FF)
Week 12	May 5	Phonological developments	Chap. 13 (FF)
Week 13	May 12	Classical theory of speech perception (and beyond)	Chap. 14 & T.B.A. (FF)
Week 14	May 19	Interactive and interactive theories	Chap. 15 (FF)
Week 15	May 26	Introduction to Articulatory Phonology (I)	T.B.A. (FF)
Week 16	Jun 2	Introduction to Articulatory Phonology (II)	T.B.A. (FF)
Week 17	Jun 9	Student Presentation	
Week 18	Jun 16	Student Presentation	