

Fall 2013

**Syllabus: 10210LING506300**  
**Seminar on Experimental Phonetics**

**Class:** Thur 2:10-5:00 p.m., CHSS Building, B305

**Instructor:** Yueh-chin Chang  
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Feng-fan Hsieh  
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**Office hours:** by appt.

**Prerequisites:** an intro to phonetics/phonology class, or permission of instructor

**Class website:** <http://moodle.nthu.edu.tw>

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

-- Assigned readings will be posted on the class website.

**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 experiments.

**Course requirements:**

Assigned readings

Class participation

In-class presentation (10%)

Homework assignments (40%)

(There will be 4 assignments: i) vowel, ii) consonant, iii) tone, and iv) perception)

Term project (50%) (Come make an appointment with us by the end of November)

**Schedule of topics** (subject to revision)

Readings and assignments (marked with \*) are due the day they are listed.

WEEK	DATE	TOPIC	READING
Week 1	Sep 19	No class (Mid-Autumn Festival)	
Week 2	Sep 26	Orientation	
Week 3	Oct 3	General intro	Chaps 1&2 (YCC)
Week 4	Oct 10	No class (National Day)	
Week 5	Oct 17	Vowel shaping and vowel formants	Chap 3 (YCC)
Week 6	Oct 24	Sound source and the spectra	Chap 4 & Johnson (2003) Chap 6 (YCC&FF)
Week 7	Oct 31	Consonant features	Chap 6 (YCC)
Week 8	Nov 7	No class (spring vacation)	
Week 9	Nov 14	Consonants: Nasal, stop, and fricative	Chap 7 (YCC)
Week 10	Nov 21*	Consonants: the voiced-unvoiced contrast/place of articulation	Chaps 8&9 (YCC)
Week 11	Nov 28	Tone, intonation	Chap 5 & Xu (1997) (FF)
Week 12	Dec 5*	Tone/the flow of speech	Xu&Wang (2001), Chap 10 (FF)
Week 13	Dec 12	Perception & production of tone	Gandour (1978), Gandour (1983), Ohala (1978) (FF)
Week 14	Dec 19	Perception of vowel	Chap 11(FF)
Week 15	Dec 26*	Perception of consonants	Chap 12 (FF)
Week 16	Jan 2	Phonological development	Chap 13 (FF)
Week 17	Jan 9	Classical theory of speech perception	Chap 14 (FF)
Week 18	Jan 16	Interactive and integrative theories	Chap 15 (FF)

(NB: YCC = Yueh-chin Chang; FF=Feng-fan Hsieh)

**Readings:**

Gandour, J. 1978. The perception of tone. In V. Fromkin (ed.) 1978. *Tone: A Linguistic Survey*. New York: Academic Press, pp. 41-76.

Gandour, J. 1983. Tone perception in Far Eastern languages. *Journal of Phonetics* 11: 149-175.

Johnson, K. 2003. *Acoustic and Auditory Phonetics*. Malden & Oxford: Blackwell.

Ohala, J. 1978. Production of tone. In V. Fromkin (ed.) 1978. *Tone: A Linguistic Survey*. New York: Academic Press, pp. 5-41.

Xu, Y. (1997). Contextual tonal variations in Mandarin. *Journal of Phonetics* 25: 61-83.

Xu, Y. and Q. E. Wang (2001). Pitch targets and their realization: Evidence from Mandarin Chinese. *Speech Communication* 33: 319-337.