

## Phonetics and Phonology of Spanish Course Themes & Outline

### Schedule

#### Weeks 1–3

The objective of the first three weeks of the course will be to familiarize the students with the basic terminology of phonetics and phonology. Key concepts such as the articulation and acoustics of speech sounds will be addressed as well as the acoustic and articulatory properties of the different segments. There will be a test at the end of week three over the IPA symbols. NOTE, WHERE THERE IS A CHAPTER LISTED FOR A PARTICULAR DAY, YOU MUST COME TO CLASS HAVING READ THE CHAPTER ALREADY. CLASS TIME IS A TIME TO ADVANCE, NOT CATCH UP.

Date	Topic
01.14 (M)	* Syllabus & course overview * Chapter 1: Phonetics vs. Phonology, phonemes, allophones, Articulatory Phonology, Optimality Theory
01.16 (W)	* Chapter 2: Consonants and vowels: Place, manner and voicing. Vowel categories: lab session with ultrasound to see tongue shapes for vowels. HMW: Ch. 2 Record the five vowels of Spanish five times in Praat. Get average F1, F2 and F3 and organize in Excel
01.21 (M)	* Chapter 3: Acoustic characterization of speech sounds
01.23 (W)	* Lab session: data collection. Read corpus (we will make a schedule for other data collecting sessions on this day too)
01.28 (M)	* Vowel processes: Vowel harmony/V-to-V coarticulation. Fernández Planas thesis
01.30 (W)	* Formal intro to project: Hypothesis generation and corpus creation. Tilsen and Mok papers PS1

**Weeks 4–7**

**Study** February will be devoted primarily to segmenting the articulatory data for the study; Data segmentation is due by the end of February in order to have time for statistical analyses and write-ups.

Date	Topic
02.04 (M)	* Chapter 4: Syllables
02.06 (W)	* Lab session: segmenting ultrasound. Practice and tutorial
02.11 (M)	* Chapter 5: Phonological processes. HMW: Exercises on page 109-110
02.13 (W)	* Project updates. Presentation of progress and problem resolution (we'll meet in the lab this day)
02.18 (M)	* Chapter 6: More on vowels! HMW: Exercises on page 125-126
02.25 (M)	* Chapter 7: Stops
02.27 (W)	* Data analysis: tutorial in lab HMW: Segmentations due

## Weeks 8–11

**Study** It is expected that all files are completely segmented or very close to being completely segmented. During weeks 8-11 you will be expected to analyze your results by way of student t-tests. Most of you have never done this type of analysis, but don't worry, you'll be supplied with tutorials and hands on resources in order to perform these analyses. At the end of week 10, you will give a presentation about the status of your group's work and express doubts and communicate problems you are having which can still be addressed before final write up.

Date	Topic
03.04 (M)	* Chapter 8: Fricatives and affricates: Recasens article
03.06 (W)	* Does manner matter? Why manner may affect V-to-V coarticulation
03.11 (M)	* Chapter 9: Nasals & liquids
03.13 (W)	* Midterm chapters 1-9
03.20 (M)	* Presentation of status on projects: strengths & weaknesses, specific problems
03.27 (W)	* Write ups: how to design a knock-em-dead poster
	HMW: Means for maximum tongue height due for your group's vowel subset

## Weeks 10–15

**Study** Over the next two weeks - yes two weeks, two weeks of April are dedicated to Spring Break - we will begin data analysis using student t-tests. Student t-tests are a standard way to test for statistical significance given a couple of basic assumptions. We are using t-tests because the ultrasound hardware we use already has an integrated function for t-test analyses. That is to say that the program will perform the statistical analysis for you, but you must understand what to input into the t-test function in order to obtain reliable results and you must know how to interpret the results. The next two weeks will be provide a crash course in statistical analyses and results write up.ñ

Date	Topic
04.1 (M)	* Chapter 1: Statistical Modelling and Inference for Social Science. Gailmard (2014)
04.3 (W)	* Stats workshop: AAA, t-tests and graphs HMW: generate informative graphs for posters
04.8 (M)	* All about scientific results and how to condense them into a poster HMW: make list of most pertinent results and prioritize the list in accordance with importance
04.9 (W)	* <i>VH</i> : Workshop: posters, posters, posters: art or science? * Spring Break!!!
04.29 (W)	* Final poster presentations/final day of class