## Lab Syllabus

Physics of Speech (SPLH/LING 120) SPRING 2017

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## I. Computer Lab- Dole HDC 3049

• Each student will work at his or her own computer workstation. All software for this lab is available on the computers.

- <u>Praat</u> (<u>http://www.fon.hum.uva.nl/praat/</u>) is the primary sound synthesis and analysis software that we will use in this lab.
- You will also be using:
  - Headphones (please bring your own headphones)
  - Digital sound level meter (provided)
  - o Alvin and Audacity—two other computer programs
- There are **no textbooks** assigned for this lab.

### II. Lab Assignments

- Lab instructions will be posted to Blackboard approximately 1 week before the lab session is held. You will fill out excel sheets while completing the tasks and turn this in on Blackboard by the date of the next lab session (by 5pm the day due).
- There will be **10 lab assignments**. You will have at least one week to complete each one.
- You will download instruction, answer sheets, and sound files for these labs from Blackboard.
- If you do not finish the lab during the scheduled time, you may:
  - Finish it at any computer that has the required software. Be sure to E-mail yourself any unfinished work so you may continue later at your convenience.
- There are no planned extra credit assignments.
- Please ask questions and ask for help on anything you are not 100% sure about.

### Lab Schedule

Lab Schedule		
	<u>Title</u>	<b>Date</b>
	NO LAB	1/20/17
Intro	Class and Software Overview	1/27/17
Lab 1	Generating & Measuring Sine	2/3/17
Lab 2	Pitch and Frequency	2/10/17
Lab 3	Loudness and Intensity	2/17/17
Lab 4	<b>Complex Waves</b>	2/24/17
Lab 5	Speech Perception	3/3/17
Lab 6	Filters	3/10/17
Lab 7	Noise and Hearing Loss	3/17/17
	Spring Break	3/24/17
Lab 8	Vowel Space	3/31/17
Lab 9	Co-articulation and Word	4/7/17
Lab 10	Final Lab	4/14/17
	NO LAB	4/21/17
	NO LAB	4/28/17

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### III. Lab Attendance

- For each lab session, you will be counted as "present" or "absent". In order to get full credit for lab attendance, you MUST attend EVERY lab session.
- Notify the lab instructor of any anticipated absence and the absence <u>may be</u> considered *excused* at the discretion of the instructor.
- All absences will impact your attendance grade; however, excused absences allow
  you to make-up the lab assignment the following week. <u>Unexcused absences result
  in a "zero" for that lab</u> and assignments cannot be made up.

### IV. Grades

- Your lab grade will be based on 100 points: 90 from lab assignments and 10 from attendance.
- Your Lab Assignments score will be based on scores of 9 of the 10 lab assignments. Your lowest lab score will be dropped.
- The first two absences will reduce your attendance grade by 1 point each. The third absence will result in a zero for attendance for the semester.

Activity	Points(each)	% of Lab Grade
Lab Assign.	10	90
Attendance	1	10

### V. Lab Guidelines

- When you arrive at your workstation, please let me know if you recognize anything out of the ordinary about/on your computer.
- The computers are to be used for completing the lab ONLY. This means no checking email, no using social media, no "googling" anything—be it weather, the latest news, or what movies are on tonight! This rule MUST be adhered to as we have had problems in the past with viruses on these computers, which may shut the lab down for a long period of time. Any activity you perform on the laboratory computer that is not directed by Dr. Kokkinakis or Ms. Williams will result in your immediate dismissal from the laboratory and a score of "0" for the laboratory assignment.
- Your completion of the labs should be your own <u>original</u>, <u>independent</u> work. Feel free to ask your neighbor simple questions—where a command is, clarification of an instruction, etc. Note that there are large random errors in the analysis we do so nobody should have all the exact same answers.
- When you leave the lab at the end of the hour, **DO NOT SHUT DOWN** the computer, as other students will be on their way in.