

Lab Syllabus

Physics of Speech (SPLH/LING 120)
Fall 2017

Instructor: Shadi Pir Hosseinloo, M.S.

Office hours: 3025 Dole, Friday 11-12 or by appointment

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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.
- **Praat** (<http://www.fon.hum.uva.nl/praat/>) 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)
 - 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 excelsheets 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

	Title	Date
	NO LAB	8/25/17
Intro	Class and Software Overview	9/1/17
Lab 1	Generating & Measuring Sine	9/8/17
Lab 2	Pitch and Frequency	9/15/17
Lab 3	Loudness and Intensity	9/22/17
Lab 4	Complex Waves	9/29/17
	NO LAB	10/6/17
	FALL BREAK	10/13/17
Lab 5	Speech Perception	10/20/17
Lab 6	Filters	10/27/17
Lab 7	Noise and Hearing Loss	11/3/17
Lab 8	Vowel Space	11/10/17
Lab 9	Co-articulation and Word	11/17/17
	THANKSGIVING	11/24/17
Lab 10	Final Lab	12/1/17

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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 may be 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. **Unexcused absences result in a “zero” for that lab** 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. Kameron or Ms. Pirhosseinloo 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 original, independent 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.