

Welcome to the Physics of Speech Lab!

Instructor:

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Office hours: 3023 Dole, Friday 12-1:30pm or by appointment

I. Computer Lab - Dole HDC 3049

- Each student will work at his or her own computer workstation, which has all the software we'll be using this semester. **Praat** (<http://www.fon.hum.uva.nl/praat/>) is the sound synthesis and analysis software we'll use the most.
- You will also be using:
 - Headphones (**please bring your own comfortable headphones**)
 - Digital sound level meter (provided)
 - Alvin and Audacity – two other computer programs.
- There are **no texts** assigned for the lab section

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'll 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. 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

	<u>Title</u>	<u>Date</u>
	NO LAB	8/26/16
Intro	Class and Software Overview	9/2/16
Lab 1	Generating & Measuring Sine Waves	9/9/16
Lab 2	Pitch and Frequency	9/16/16
	NO LAB	9/23/16
Lab 3	Loudness and Intensity	9/30/16
	NO LAB	10/7/16
Lab 4	Complex Waves	10/14/16
Lab 5	Speech Perception	10/21/16
Lab 6	Filters	10/28/16
Lab 7	Noise and Hearing Loss	11/4/16
Lab 8	Vowel Space	11/11/16
Lab 9	Co-articulation and Word Segmentation	11/18/16
	Thanksgiving	11/25/16
Lab 10	Final Lab	12/2/16
	NO LAB	12/9/16

III. Lab Attendance

- For each lab session, you will be counted as either “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 instructor may consider the absence *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 cannot be made up.

IV. Grades

- Your lab grade will be based on 100 points: 90 from lab assignments and 10 from attendance.
- Your total 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 Facebook, no “googling” anything—be it weather, the latest news, or what movies are on tonight!** This rule MUST be adhered to, as we’ve 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. Viswanathan or Mr. Burnison 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.