

Lab Syllabus

Physics of Speech (SPLH/LING 120)
Spring 2021

Instructor: Victoria (Tia) Carpenter B.A.

Email: vc032898@ku.edu

Phone: 314-488-4334

Zoom office hours: personal meeting ID: 605 857 3782 appointments can be schedules via email or text

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—another computer program
- There are **no textbooks** assigned for this lab.

II. Lab Assignments

- Lab instructions will be posted to Blackboard before the lab session is held. You will download and fill out the lab while completing the tasks. Then you will upload the document to blackboard. **All labs will be due to blackboard before the start of your next lab session.**
- There will be **10 lab assignments**. You will have sufficient time to complete the lab in class.
- You will download sound files for these labs from Blackboard.
- There are no planned extra credit assignments.
- Please ask questions and ask for help on anything you are not 100% sure about.

Lab Schedule

Date	Lab	Due (by 10am)
Feb 5	INTRO Lab	
Feb 12	Lab 1: Generating & Measuring Sine Waves	Feb 19
Feb 19	Lab 2: Pitch and Frequency	Feb 26
Feb 26	NO LAB	
March 5	Lab 3: Loudness and Intensity	March 12
March 12	Lab 4: Complex Waves	March 19
March 19	Lab 5: Filters	March 26
March 26	NO LAB	
April 2	Lab 6: Vowel Space	April 9
April 9	Lab 7: Co-articulation and Word Segments	April 16
April 16	Lab 8: Speech Perception	April 23
April 23	Lab 9: Noise and Hearing Loss	April 30
April 30	Lab 10: Final Lab	May 7
May 7	NO LAB (Stop day)	

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III. Lab Attendance

- For each lab session, you will be counted as “present” or “absent” whether you choose to join in-person or on zoom.
- Please attend your scheduled lab time.
- **Contact the instructor the night before the lab if you plan to attend over zoom. Please join class in-person whenever possible.**
- Notify the lab instructor of any anticipated absence and the absence may be considered *excused* at the discretion of the instructor.
 - Examples of excused absences: family emergency, sport or university related event with documentation, scheduled surgeries, illness.
 - Examples of absences that WON'T be excused: leaving early for spring break, “something came up”, family trips or weddings where you fly out Friday.

Joining class online:

What to do:

- Everyone will need to download the Praat software onto their computers. It is free and the link to do so is (<http://www.fon.hum.uva.nl/praat/>)
- Labs are due on their original due dates but can be completed on your own time
- You will download/save the sound files to your computer just as we did on the computers for class
 - After you download/save the sound file, within Praat you will go to Open...Read from file...find where you saved it
- You will submit the lab on Blackboard
 - Open the lab word document, enter all your answers directly on the document
 - Save the document
 - Upload and submit on Blackboard
- I will be teaching live on Zoom every Friday from 9-11am. **Please join during your usual class time. Class Meeting ID: 958 0811 1577 Passcode: 654744**
Zoom class link: <https://kansas.zoom.us/j/95808111577>

IV. Grades

- Your lab grade will be based on 300 points: 30 points for each lab
- Late Submission is not accepted, and your score will be a zero.

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**. 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. Cynthia R Hunter or Tia Carpenter 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

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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.