

Class Meetings Fall 2024

Course Goals

Learning Objectives

Book

Work

Grades

Click here for detailed Weekly Course Schedule

USC and Related Support Resources

Communication and Policy Information

In-Class Health Notes

Course Content & Recording Distribution Policies

Course Evaluations

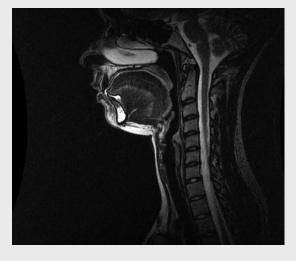


image courtesy of Dr. Yongwan Lim

Prof. Dani Byrd

USC Linguistics Dept. GFS 301

office hours: by appt & Tues 1:50-2:50

contact is by email at:

dbyrd@usc.edu

How do humans speak and hear? And how can this exquisite a hallmark of humanity falter during the lifespan. This course will consider how moving our bodies—our tongue, larynx, and lips—creates sound that encodes the informational substance of human language. *This course introduces students to thinking about spoken language communication as a physical act taking place in a dynamic and social context in health and in breakdown.*

After an introduction to vocal tract anatomy, students will take an audio-visual tour through the diverse speech sounds that languages of the world use—from vowel and consonant sounds to clicks to tone. We will practice phonetic transcription and give a go at producing non-English speech sounds. We work toward a basic grasp of speech acoustics and the physiology of human hearing, while appreciating the abstract nature of human speech perception. We look at how bilingual speakers juggle their multiple languages. This body of phonetic knowledge is deployed in a consideration of how diseases and disorders can affect the ability to speak and hear. For example, we learn about voice disorders, stuttering, oropharyngeal cancer, deafness, and hearing loss. We finish by considering implications of what we have learned for speech technologies, including cochlear implants, speech synthesis, and automatic speech recognition.

If you're interested in linguistics, cognitive science, voice and speech, speech technology, or human health, this GSEM seminar might be up your alley. All backgrounds and interests are welcome!

Class Meetings Fall 2024

Lecture: T Th 12:30-1:50 in GFS 202 [If we become remote, here are Professor Byrd's Netiquette expectations for the virtual classroom.]

GSEM 140g in Life Sciences. Scientific understanding of a full range of living systems from molecules to ecosystems, prokaryotes to humans, past and present. (Satisfies GE-D, Life Sciences) Open only to Freshmen.

Course Goals

- To situate the physiology and functions involved in producing human language
- To understand how sounds of the World's Languages are articulated and how English varies globally & around the US
- To have an elementary understanding of speech acoustics
- To grasp the basic physiology of human hearing and appreciate the abstract nature of human speech perception
- To appreciate how bilingual speakers juggle their multiple languages

- To become familiar with breakdown in disorders of voice and speech
- To become familiar with the causes of hearing loss and deafness and understand the role of hearing aids, cochlear implants, and signed languages
- To appreciate the benefits and limitations of spoken language technologies

Learning Objectives

- Demonstrate learning related to course goals through question-answer assessment
- Analyze original data in mini datasets
- Participate in phonetic exercises both oral (practicum & listening) and written (transcription)
- Peruse, select, synthesize, and critique original research articles in speech and hearing sciences from library journal collections
- Practice public presentation of scientific material to lay audience
- Develop a functional understanding of healthy and disordered language, including via interacting with atypical speakers/hearers, that can be drawn on to make informed life decisions.

Book

D. Byrd & T. Mintz. (2010) *Discovering Speech, Words, and Mind.* Wiley-Blackwell Publishing. (Also available downloadable from the Libraries.)

[optional; pdfs will be accessible if you prefer not to buy this] *Introduction to Communication Disorders* Robert Owens and Kimberly Farinella.

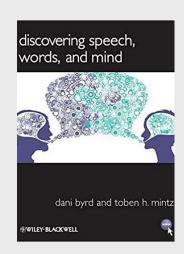
Pearson.

Other readings will be assigned and posted as links or downloadable pdfs.

Work

- Readings and multimedia material in preparation for class
- Attendance and participation in class required
- Assigned independent work
- Two tests (non-cumulative)

Slack will be used for information sharing about interesting media, news and current events, to reiterate in-class announcements, or for class-relevant conversation. Please turn on



notifications for the class channel.

Grades

- Test 1 20%
- Test 2 20% (not cumulative but in the final exam timeslot)
- Homework 1: Transcription
- Homework 2: Identifying Consonant Articulation
- Homework 3: Language Variation
 - All Homeworks together comprise a total of 20% (i.e. approx 6.7% each)
- Written Interview Report 20%
- Oral Presentation of Research Article 20%
- Engagement: For course grades that are computed to be 'on the bubble,' inlecture engagement and participation may be taken into account in tipping a grade upward or not.

Assignments: Some assignments will involve the use of a computer; some will be writing and/ or analysis oriented. Assignments will be released at least one week prior to their due date.

Late homeworks are not accepted with the following exception: A request to the professor <u>in advance</u> to use your course 'TimeBank' allows for one two-day extension during the semester to be applied to **Homework 1-3 only—not** applicable to tests or oral presentation.

All assignments are to be done **independently**, not in teams, not with partners, not in collaboration. Copying *or* collaborating on homework assignments (or exams) will be considered a violation of Academic Integrity (see further below). If I believe material submitted by a student was produced by A.I. (e.g. ChatGPT) or it is flagged by a GPT Detector, I reserve the right give the student an impromptu oral exam on the same material.

The course will be graded on a curve (applied to final grades): *roughly* top 45% As, next 45% Bs, next 10% Cs and below. The curve will not however move grades down.

Tests cannot be 'made up' or taken early unless arrangements with the instructor are *made in advance* and are due to documented *unavoidable circumstances (aka an emergency)*.

Click here for detailed Weekly Course Schedule

with lecture by lecture schedule and Readings and Assignments by Week

USC and Related Support Resources

https://sites.google.com/view/uscphongroup/usc-support

Communication and Policy Information

Slack and Email: In addition to the utility of **Slack**, it is useful if we can communicate with each other **using email**. In this way, you can be advised of changes, and I can be advised of any problems that you encounter. Please know that for this class *I will expect you to check your email*. In case you are unfamiliar with email, communications should be respectful and grammatical.

In-Class Health Notes

Students with symptoms of illness should not be in the classroom. If you are ill, <u>let me know</u> and we will work together to address continuity of education. If your symptoms are consistent with Covid-19, you should arrange to test through <u>MySHR</u>.

Students are expected to comply with all aspects of USC's COVID-19 policy as extant at any given time, including its masking policy. Failure to do so may result in removal from the class and referral to Student Judicial Affairs and Community Standards. If we find ourselves needing to be remote, here are Professor Byrd's <u>Netiquette</u> expectations for the virtual classroom.

For students enrolled in classes that will be taught in-person, the default attendance expectation is in-person. Students who present an OSAS accommodation from the Office of Student Accessibility Services that permits them to take the class online-only will be accommodated. Similarly, we want to support and accommodate students who test positive for COVID or are required to self-isolate due to a high-risk exposure. That said, there should be no expectation that this class will be recorded, though it may be recorded at times for students who cannot be present due to illness.

Emergency Preparedness/Course Continuity in a Crisis—New Students are automatically signed up for TrojanAlerts. "In case of a declared emergency if travel to campus is not feasible, USC executive leadership will announce an electronic way for instructors to teach students in their residence halls or homes using a combination of Blackboard, teleconferencing, and other technologies. See the university's site on Campus Safety and Emergency Preparedness."

(The inclusion here of the material below is required by USC.)

Academic Integrity

The University of Southern California is foremost a learning community committed to fostering successful scholars and researchers dedicated to the pursuit of knowledge and the transmission of ideas. Academic misconduct is in contrast to the university's mission to educate students through a broad array of first-rank academic, professional, and extracurricular programs and includes any act of dishonesty in the submission of academic work (either in draft or final form).

This course will follow the expectations for academic integrity as stated in the <u>USC Student Handbook</u>. All students are expected to submit assignments that are original work and prepared specifically for the course/section in this academic term. You may not submit work written by others or "recycle" work prepared for other courses without obtaining written permission from the instructor(s). Students suspected of engaging in academic misconduct will be reported to the Office of Academic Integrity.

Other violations of academic misconduct include, but are not limited to, cheating, plagiarism, fabrication (e.g., falsifying data), knowingly assisting others in acts of academic dishonesty, and any act that gains or is intended to gain an unfair academic advantage.

The impact of academic dishonesty is far-reaching and is considered a serious offense against the university and could result in outcomes such as failure on the assignment, failure in the course, suspension, or even expulsion from the university.

For more information about academic integrity see the <u>student handbook</u> or the <u>Office of Academic Integrity's</u> website, and university policies on Research and Scholarship Misconduct.

Unless specifically designated as a 'group project,' all assignments are expected to be completed individually. Please ask me if you are unsure about what constitutes unauthorized assistance on an exam or assignment, or what information requires citation and/or attribution. In this class, you are expected to submit work that demonstrates your individual mastery of the course concepts.

If found responsible for an academic violation, students may be assigned university outcomes, such as suspension or expulsion from the university, and grade penalties, such as an "F" grade on the assignment, exam, and/or in the course.

Course Content & Recording Distribution Policies

USC has policies that prohibit recording and distribution of any synchronous and asynchronous course content outside of the learning environment.

Violations of Academic Integrity: Recording a university class without the express permission of the instructor and announcement to the class, or unless conducted pursuant to an Office of Student Accessibility Services (OSAS) accommodation. Recording can inhibit free discussion in the future, and thus infringe on the

academic freedom of other students as well as the instructor. (Living our Unifying Values: The USC Student <u>Handbook</u>, page 13).

Violations of Academic Integrity: Distribution or use of notes, recordings, exams, or other intellectual property, based on university classes or lectures without the express permission of the instructor for purposes other than individual or group study. This includes but is not limited to providing materials for distribution by services publishing course materials. This restriction on unauthorized use also applies to all information, which had been distributed to students or in any way had been displayed for use in relationship to the class, whether obtained in class, via email, on the internet, or via any other media. (Living our Unifying Values: The USC Student Handbook, page 13).

Course Evaluations

Course evaluation occurs at the end of the semester university-wide.

Students and Disability Accommodations

USC welcomes students with disabilities into all of the University's educational programs. The Office of Student Accessibility Services (OSAS) is responsible for the determination of appropriate accommodations for students who encounter disability-related barriers. Once a student has completed the OSAS process (registration, initial appointment, and submitted documentation) and accommodations are determined to be reasonable and appropriate, a Letter of Accommodation (LOA) will be available to generate for each course. The LOA must be given to each course instructor by the student and followed up with a discussion. This should be done as early in the semester as possible as accommodations are not retroactive. More information can be found at osas.usc.edu. You may contact OSAS at (213) 740-0776 or via email at osasfrontdesk@usc.edu.

Support Systems:

Counseling and Mental Health - (213) 740-9355 - 24/7 on call

Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

988 Suicide and Crisis Lifeline - 988 for both calls and text messages – 24/7 on call
The 988 Suicide and Crisis Lifeline (formerly known as the National Suicide Prevention Lifeline)
provides free and confidential emotional support to people in suicidal crisis or emotional distress 24
hours a day, 7 days a week, across the United States. The Lifeline is comprised of a national
network of over 200 local crisis centers, combining custom local care and resources with national
standards and best practices. The new, shorter phone number makes it easier for people to
remember and access mental health crisis services (though the previous 1 (800) 273-8255 number
will continue to function indefinitely) and represents a continued commitment to those in crisis.

Relationship and Sexual Violence Prevention Services (RSVP) - (213) 740-9355(WELL) - 24/7 on
call

Free and confidential therapy services, workshops, and training for situations related to genderand power-based harm (including sexual assault, intimate partner violence, and stalking).

Office for Equity, Equal Opportunity, and Title IX (EEO-TIX) - (213) 740-5086

Information about how to get help or help someone affected by harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants.

Reporting Incidents of Bias or Harassment - (213) 740-5086 or (213) 821-8298

Avenue to report incidents of bias, hate crimes, and microaggressions to the Office for Equity, Equal Opportunity, and Title for appropriate investigation, supportive measures, and response.

The Office of Student Accessibility Services (OSAS) - (213) 740-0776

OSAS ensures equal access for students with disabilities through providing academic accommodations and auxiliary aids in accordance with federal laws and university policy.

USC Campus Support and Intervention - (213) 740-0411

Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

Diversity, Equity and Inclusion - (213) 740-2101

Information on events, programs and training, the Provost's Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

<u>USC Emergency</u> - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call

Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible.

<u>USC Department of Public Safety</u> - UPC: (213) 740-6000, HSC: (323) 442-1200 – 24/7 on call Non-emergency assistance or information.

Office of the Ombuds - (213) 821-9556 (UPC) / (323-442-0382 (HSC)

A safe and confidential place to share your USC-related issues with a University Ombuds who will work with you to explore options or paths to manage your concern.

Occupational Therapy Faculty Practice - (323) 442-2850 or otfp@med.usc.edu
Confidential Lifestyle Redesign services for USC students to support health promoting habits and routines that enhance quality of life and academic performance.

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Dani Byrd • USC Linguistics • Los Angeles, CA USA • (213) 740-2986 [dept] • dbyrd@usc.edu