

# SPA 3343.0U1 COURSE SYLLABUS

## Phonetics, Fall 2016

Class Time: Mon & Wed, 10:00am – 11:15pm

Location: TBA Main Campus

## Contact Information

Instructor: William Katz

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## Course Description

An introduction to the production and perception of speech sounds. This course covers modern theory and practice in articulatory, acoustic, and linguistic phonetics. Students will acquire basic transcription skills with the International Phonetic Alphabet (IPA) for General American English (GAE), foreign-accented English, and speech from individuals with speech, language, or hearing disorders.

## Student Learning Outcomes

This course has been designed to ensure that students demonstrate required knowledge and skills as outlined in the 2014 Standards and Implementation Procedures for the Certificate of Clinical Competence in Speech-Language Pathology. The specific standards addressed in this class are: IV-B, IV-C, IV-E, V-A, and V-B.

After course completion, students should be able to:

- 1) Identify and explain the basic anatomy and physiology of the speech production mechanism. (IV-B)
- 2) Describe the principles of articulatory phonetics, including feature theory and speech movements of the tongue, lips, jaw, and velum. (IV-B)
- 3) Demonstrate basic knowledge of voicing, resonance, and the voice mechanism. (IV-B)
- 4) Demonstrate IPA transcription skills, including composing an effective transcript, constructing clear examples of spontaneous and citation form speech transcripts, and interpreting read transcriptions. (IV-B, IV-C, V-A, V-B)
- 5) Analyze and classify the consonants and vowels of American English by the features of place, manner, and voicing. (IV-B)
- 6) Discuss the phonological rules and allophones of American English and contrast these with systems for other accents and languages. (IV-B, IV-C, V-A, V-B)
- 7) Identify and apply properties of acoustic phonetics to speech therapy practice. (IV-C, IV-E, V-A, V-B)
- 8) Understand the basic principles of linguistic phonetics, including their application to clinical issues such as phonemic misperception and L2 acquisition. (IV-B, IV-C, V-B)

## GENERAL COURSE INFORMATION

### Course Restrictions

No pre-requisites or co-requisites are necessary for this course.

### Required Text and Materials:

Textbook: Katz, William F. (2013). *Phonetics for Dummies*. John Wiley & Sons.

ISBN# 978-1118505083

Also available as an eBook. For more details, see

<http://www.wiley.com/WileyCDA/WileyTitle/productCd-1118505085.html>

### Materials:

- Scantron form #229630 – you will need two (one for the midterm, one for the final).  
*Note: There is more than one Scantron form available at the bookstore. They look very similar – please double check the form number.*

All additional course materials will be made available in class or on eLearning.

### NOTE:

Some of the course materials require Microsoft Office in order to function properly.

As a UT Dallas student, several Microsoft apps are available to you, free of charge.

See <https://www.utdallas.edu/oit/office365/> for more details. You can also purchase a discounted copy of Microsoft Office from the UTD Technology Store.

### **Recommended Lab resource (optional):**

- Katz, William F. (2012). *Transcribing American English* [DVD].  
Available at [http://www.utdallas.edu/~wkatz/Instructional\\_Materials.html](http://www.utdallas.edu/~wkatz/Instructional_Materials.html)

### **Recommended text (optional):**

- Ladefoged, P. & Johnson, K. (2015). *A Course in Phonetics*. 6th Edition.

### ✓ **NOTE: You will need to frequently consult the class website:**

[http://www.utdallas.edu/~wkatz/phonetics\\_course/phonetics\\_course.html](http://www.utdallas.edu/~wkatz/phonetics_course/phonetics_course.html)

### **Additional Course Information**

The general format of this course is a combination of lecture and lab. In order to succeed, you will need to practice recognizing and transcribing phonetic symbols outside of class. Study partners/groups are strongly recommended.

Lecture: The lecture portion of the course will introduce and clarify conceptual information. Each lesson is designed with the expectation that you have read the assigned chapters before coming to class. Lecture slides will be posted on eLearning before each class.

Labs: The lab portion of the course is run by the teaching assistant. Phonetics lab is an interactive lesson that provides students the opportunity to practice their transcription skills. Lab slides will not be posted online or distributed to students. It's better to come and learn together!

eLearning: Announcements and course materials will be posted regularly on the eLearning website. Check eLearning frequently to stay up-to-date with any changes that may take place during the semester. Not familiar with eLearning? Check out these tutorial videos:  
<https://www.youtube.com/watch?v=kDfHeFmzxVQ>  
<https://www.youtube.com/watch?v=hjP49cEeoXU>

## **COURSE GRADING AND GUIDELINES**

### **Classroom Policy**

Students are expected to act in a professional manner by attending class, meeting deadlines, contacting the instructor in a timely fashion, and maintaining academic integrity.

Attendance: Attendance will not be taken on a regular basis. However, students are expected to attend all class meetings. If you miss a class, you are responsible for getting announcements, handouts, and notes from your classmates.

Participation: Lectures involve active participation and discussion. Please free to ask questions clarifying the material and to contribute your knowledge and insight.

Electronics: Computer use during class time is allowed for for course-related work (i.e., note taking). However, perosnal use of computers (e.g. general web surfing) is not permitted. During lab, electronic devices are not allowed. This is because we need your full attention for the AV materials being presented. Also, please mute cellphones and take any emergency calls received during class in the hallway. Thank you.

### **Grading Policy**

Knowledge will be assessed throughout the semester via homework assignments, in-class quizzes, and weekly lab exercises. There will be a midterm exam, a (cumulative) final, and a final project.

Homework: Homework assignments assess your understanding of the material we have covered during lecture. Instructions for each assignment will be posted on eLearning. All assignments must be completed independently (unless otherwise specified). Late assignments will not be accepted except for extenuating circumstances (e.g., medical reasons with signed doctor's notes).

Quizzes: Lab quizzes assess your transcription abilities as the course progresses. Quizzes may take place at the beginning, middle, or end of lab lessons. In each quiz, you will be asked to independently transcribe the speech samples that you hear.

Exams: In-class exams assess your understanding of the conceptual information presented in the text and during lectures. The final exam is cumulative, covering material for the entire course. For each exam, there is a study guide to help you prepare.

Final Project: The final project allows you to apply the skills acquired in this course to the analysis of a short sample of foreign-accented speech. The project has two parts: (1) a research paper and (2) an IPA transcription of the corpus. Additional information is provided on eLearning.

### **Grading Breakdown**

25% Homework and Quizzes  
25% Midterm Exam  
25% Final Exam (cumulative)  
25% Final Project

### **Late Work and Make-Up Policy**

If you have to miss a quiz or exam, please notify the instructor as soon as possible. Missed quizzes and exams will only be given in cases of legitimate, documented reasons (e.g., illness with a doctor's note) and must be made-up within a week of the original date. For the final project, five points will be deducted from late submissions for each day that has passed since the deadline.

**Late extra credit submissions will not be accepted.**

### **Extra Credit Opportunities**

Extra credit may be earned by completing the exercises from online learning modules on eLearning. Learning module (LM) exercises are graded based on effort, not accuracy. Completion of the first five LM exercises will add five points to your midterm exam grade; completion of the second set of five will add five points to your final exam grade. **You must complete all five LM exercises in the set to receive extra credit.** Incomplete learning modules will not receive credit.

## **COURSE SCHEDULE**

### **Subject:**

- I. Anatomy of the speech production mechanism;  
articulatory phonetics
- II. IPA; Transcription
- III. Consonants: place, manner, & voicing
- IV. Vowels and the vowel space
- V. Exploring different speech sources
- VI. Exploring other places; other manners
- VII. Phonological rules and allophones

### **Textbook:**

- Ch. 1, 2, 4
- Ch. 3, 5
- Ch. 6
- Ch. 7
- Ch. 15
- Ch. 16
- Ch. 8, 9

### **(MIDTERM)**

- VIII. Working with suprasegmentals
- IX. Acoustic phonetics
- X. Linguistic/Perceptual phonetics
- XI. English accents and dialects
- XII. Child language issues and clinical populations

- Ch. 10, 11
- Ch. 12, 13
- Ch. 14
- Ch. 18
- Ch. 17, 19

<b>Tentative date for midterm exam:</b>	<b>10/15</b>
<b>Tentative date for turning in final project:</b>	<b>12/08</b>
<b>Tentative date for final Exam:</b>	<b>12/17</b>

## **COURSE LEARNING OBJECTIVES**

After completing the course students should be able to:

- 9) Identify the anatomy of the speech production mechanism. (III-B)
- 10) Discuss and explain articulatory phonetics, including feature theory and the basic kinematics of tongue, lip, jaw, and velum. (III-B)
- 11) Recognize the importance of voicing and voice mechanisms. (III-B)
- 12) Show abilities of basic IPA transcription, including composing an effective transcript, constructing clear examples of spontaneous and citation form speech transcripts, and interpreting read transcriptions. (III-B, III-C, IV-B, IV-G)
- 13) Analyze and classify the consonants and vowels of American English by the features of place, manner, and voicing. (III-B)
- 14) Discuss the phonological rules and allophones of American English and contrast these with systems for other accents and languages. This will incorporate systems of stress and intonation. (III-B, III-C)
- 15) Identify and apply properties of acoustic phonetics to speech pathology practice. (III-C, III-E, IV-B, IV-G)
- 16) Define and outline the basic principles of linguistic phonetics. (III-B, III-C)

## COURSE SCHEDULE FALL 2016

<b>Date</b>	<b>Lecture</b> (Tuesdays)	<b>Lab</b> (Thursdays)	<b>Reading assignments due</b> <i>HW = Homework due</i> <b>LM = Learning modules due</b> on Tuesdays (before lecture)
<b>(1)</b> 8/23 8/25	<b>Tues</b> – Meet and greet. Review syllabus, text, coursework expectations. Definitions of phonetics and phonology.  <b>Thurs</b> – Begin lecture 1. History of phonetics, basic feature theory.	No lab	<b>Intro, Chap. 1 &amp; 2</b>
<b>(2)</b> 8/30 9/1	<b>Tues</b> – Source-filter theory and Feature theory. Place and manner of consonants.  <b>Thurs</b> – Begin vowel features.	No lab	<b>Chap. 3 &amp; 4</b>
<b>(3)</b> 9/6 9/8	Continue with consonant and vowel features.	Intonation practice VPM practice	<b>Chap. 1 – 4</b> <b>LM 1</b> , Intonation and VPM  <i>HW 1 (collect on Thursday)</i>
<b>(4)</b> 9/13 9/15	Concepts of phoneme and allophone. Cover last points in chapters 1 – 4.	Broad transcription  <i>Quiz 1, (10 intonation probs)</i>	<b>Chap. 5, 6 &amp; 7</b> <b>LM 2</b> , Broad transcription  <i>HW 2 (collect on Thursday)</i>
<b>(5)</b> 9/20 9/22	Airstream mechanisms. In-class demo and discussion of these sounds.	Broad transcription  <i>Quiz 2, (5 real word trans)</i>	<b>Chap. 15</b> <b>LM 3</b> , Real word transcription  <i>HW 3 (collect on Tuesday)</i> <i>HW 4 (collect on Thursday)</i>
<b>(6)</b> 9/27 9/29	Place and manner of languages other than English.	Broad transcription  <i>Quiz 3, (5 non-word trans)</i>	<b>Chap. 16</b> <b>LM 4</b> , Non-word transcription
<b>(7)</b> 10/4 10/6	<b>Tues</b> – Phonology. Begin 13 Phonological rules.  <b>Thurs</b> – Continue with 13 phonological rules.	No lab	<b>Chap. 8 &amp; 9</b> <i>13 Rules Worksheet</i> <i>(collect on Thursday)</i>
<b>(8)</b> 10/11 10/13	<b>Tues</b> : Practice with phonological rules, review <b>Thurs</b> – <u>Midterm Exam</u>	Narrow transcription Real words and non-words	<b>LM 5</b> , <i>Transcription Practice 1</i>
<b>(9)</b> 10/18 10/20	<b>Tues</b> – Video: "American Tongues"  <b>Thurs</b> – Video debrief/ special topics in transcribing  <b>(NO LM THIS WEEK)</b>		
<b>(10)</b> 10/25 <b>10/27</b>	Continue with narrow transcription Begin intonation contours.		<b>LM 6</b> , Narrow Transcription
<b>(11)</b> <b>11/1</b> <b>11/3</b>	Intonation contours, tonic stress, and primary/secondary stress. Strong and weak forms, citation form/assimilation. Syllables and suprasegmentals. Onset, rhyme, nucleus, coda. Ambi-syllabicity. Syllable- vs. stress-timed languages. Sonority/prominence. Stress, length, geminate consonants, and extra-long vowels. Phonemic tone.	Intonation contours Primary/secondary stress	<b>Chap. 10 &amp; 11</b> <b>LM 7</b> , Narrow Transcription  <i>Project tapes/CDs</i> <i>(collect on Tuesday)</i>

(12) 11/8 11/10	Acoustic phonetics: Nature of sound, wave theory, harmonics and formants. Brief demo of WAVESURFER speech-analysis software.	Narrow transcription	<b>Chap. 12 &amp; 13</b> <b>LM 8</b> , Lexical stress/intonation  <i>HW 5 (collect on Thursday)</i>
(13) 11/15 11/17	Acoustics cont'd: Spectrograms. Brief history. Axes, length of material. How to interpret vowels/diphthongs, followed by consonants.  Perceptual acoustics: Categorical perception, VOT, ease of articulation, perceptual distinctiveness	Narrow transcription Sentence level transcription  <i>Quiz 4, (10 narrow trans)</i>	<b>Chap. 12, 13 &amp; 14</b> <b>LM 9</b> , <i>Transcription Practice 2</i>  Mystery spectrogram assigned
11/22 11/24	<b>FALL BREAK – NO CLASS</b>		
(14) 11/29 12/1	Varieties of English: American versus British; Mapping regional differences, tips for transcription. Issues in SLP practice.	Narrow transcription Sentence level transcription  Mystery spectrogram answer <i>Quiz 5, (2 sentence level trans)</i>	<b>Chap. 18</b> <b>LM 10</b> , Sentence transcription  <i>Mystery spectrogram (collect on Thursday)</i>
(15) 12/6	Special populations: Adult neurogenic speech, children's speech  If time, special topic on instrumental approaches to speech remediation after stroke.	Review for Final Exam	<b>Chap. 17 &amp; 19</b>  <i><u>Project is due!</u></i>
12/15*	<i><u>Final Exam</u></i>		

## COURSE DEADLINES

Date	Reading	Homework & LM Exercises	Other
5/23	Chapters 1 & 2		
5/25	Chapters 1 – 4		
6/1	Chapters 1 – 4	<b>Homework 1</b> <b>LM 1</b> , <i>Intonation &amp; VPM</i>	
6/6	Chapters 5 – 7	<b>Homework 2</b> <b>LM 2</b> , <i>Broad Transcription</i>	<i>Quiz 1</i> Final Paper assigned
6/8	Chapter 15	<b>Homework 3 &amp; 4</b> <b>LM 3</b> , <i>Real Word Transcription</i>	<i>Quiz 2</i>
6/13	Chapter 16	<b>LM 4</b> , <i>Non-word Transcription</i>	<i>Quiz 3</i>
6/15	Chapter 8 & 9	<b>LM 5</b> , <i>Transcription Practice 1</i>	Phono Rules Worksheet
6/20			<b>MIDTERM EXAM</b>
6/22	Chapter 18	<b>LM 6</b> , <i>Narrow Transcription</i>	Final Paper Rough Draft Due

6/27	Chapter 10 & 11	<b>LM 7, <i>Narrow Transcription</i></b>	
6/29	Chapter 12 & 13	<b>Homework 5</b> <b>LM 8, <i>Lexical stress/Intonation</i></b>	
7/6	Chapter 12, 13, & 14	<b>LM 9, <i>Transcription Practice 2</i></b>	<b>Quiz 4</b> Mystery Spectrogram assigned
7/11	Chapter 18	<b>LM 10, <i>Sentence Transcription</i></b>	<b>Quiz 5</b> Mystery Spectrogram Due
7/13	Chapter 17 & 19		
7/18			<b>FINAL EXAM</b> <b>FINAL PAPER DUE</b>



## **ASHA STANDARDS ADDRESSED IN THIS CLASS**

How knowledge is conveyed and how knowledge and skill acquisition will be demonstrated

### **Standard IV-B**

The applicant must have demonstrated knowledge of basic human communication and swallowing processes, including the appropriate biological, neurological, acoustic, psychological, developmental, and linguistic and cultural bases. Specific knowledge will be demonstrated in this class in the area of phonetics.

*Knowledge will be conveyed via class lectures and readings.*

*Acquisition will be demonstrated via class discussions, quizzes, exams, and final project.*

### **Standard IV-C**

The applicant must have demonstrated knowledge of communication and swallowing disorders and differences, including the appropriate etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates. Specific knowledge will be demonstrated in this class in the area of phonetics.

*Knowledge will be conveyed via class lectures, readings, and video presentation.*

*Acquisition will be demonstrated via class discussions, quiz over video, exams, and final project.*

### **Standard IV-E**

The applicant must have demonstrated knowledge of standards of ethical conduct. Specific knowledge will be demonstrated in this class for the following Principles of Ethics: I-C, II-G, IV-K, and IV-L.

*Knowledge will be conveyed via class lectures and handouts.*

*Acquisition will be demonstrated via class discussions and final project.*

### **Standard V-A**

The applicant must have demonstrated skills in oral and written or other forms of communication sufficient for entry into professional practice.

*Skills will be demonstrated via written final project.*

### **Standard V-B**

The applicant for certification must have completed a program of study that included experiences sufficient in breadth and depth to achieve evaluation, intervention, and interaction and personal quality skills. Specific focus will be on skills applicable to the area of phonetics.

*Experiences are provided via class lectures and readings.*

*Skills will be demonstrated via class discussion and final project.*

### **Students will demonstrate the following skills:**

1. Discuss and explain theories concerning the anatomy and physiology of the speech production mechanism.

As measured by:

Successful completion of exams and homework assignments

Class discussion

2. Describe and apply the principles of articulatory phonetics, including use of feature theory to describe the sounds of General American English (GAE) and other languages.

As measured by:

Successful completion of exams and homework assignments

- Class discussion  
Final project
3. Demonstrate understanding of voicing and voice mechanisms, including the concept of partial devoicing as it relates to phonological rules.  
As measured by:  
Successful completion of exams and homework assignments  
Class discussion  
Final project
4. Demonstrate the ability of use IPA transcription, including composing an effective transcript, constructing clear examples of spontaneous and citation form speech transcripts, and interpreting read transcriptions.  
As measured by:  
Successful completion of exams and homework assignments  
Class discussion  
Final project
5. Analyze and classify the consonants and vowels of American English by the features of place, manner, and voicing.  
As measured by:  
Successful completion of exams and homework assignments  
Class discussion  
Final project
6. Discuss the phonological rules and allophones of American English and contrast these with systems for other accents and languages. This will incorporate systems of stress and intonation  
As measured by:  
Successful completion of exams and homework assignments  
Class discussion
7. Apply properties of acoustic phonetics to speech pathology practice, including transcription of foreign-accented English.  
As measured by:  
Successful completion of exams and homework assignments  
Class discussion  
Final project
8. Interpret the basic principles of linguistic phonetics and apply them to the clinical issue of phonemic misperception and L2 acquisition.  
As measured by:  
Successful completion of exams and homework assignments  
Class discussion
- 

### **Comet Creed**

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

*"As a Comet, I pledge honesty, integrity, and service in all that I do."*

### **UT Dallas Syllabus Policies and Procedures**

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

***The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.***