

University of South Florida Sarasota-Manatee
 Language, Speech & Hearing Sciences post-baccalaureate online course sequence
 Department of Communication Sciences and Disorders
 College of Arts and Sciences

SAMPLE Syllabus
SPA 3011 Introduction to Speech Science
This course is 100% online

Be sure to check your USF email regularly for class announcements and communications.

How to login to your USF email:

1. Login to blackboard
2. Stay on the Welcome screen
2. Scroll down to USF email services. Click the link to "gmail". This will take you to your USF mail.

If you have questions about the course or its content, rather than emailing me, please post them on the **Q&A Discussion Board** so everyone can benefit from the answers. How to do this:

1. Login to Blackboard
2. Click on our course
3. Click on Discussion Board on left menu bar
4. Click the Q&A link to enter
5. Click the +Thread box (top left) to post your question as a new thread, or continue an existing thread by adding further questions or comments
6. Click **SAVE** to save your thread and work on it later. If you save, **only you will see it.**
7. **Be sure to click SUBMIT to post the thread and allow me and others to view it.**

If you require technical assistance, please contact the USF Help Desk:

[E-mail us at help-ac@usf.edu](mailto:help-ac@usf.edu)
 Or call 813-974-1222 or 1-866-974-1222.

COURSE DESCRIPTION: The purpose of this course is to provide a basic understanding of the acoustics of speech production and speech perception, including the physics of sound, spectrographic analysis, the acoustic properties of voice, resonance of the vocal tract, and the acoustic and articulatory properties of vowels and consonants.

OBJECTIVES AND DESIRED LEARNING OUTCOMES: The Course objectives for SPA 3011 will meet the following ASHA Knowledge and Skills Acquisition (KASA) Standards:

Standard III-A: Demonstrate knowledge of biological sciences, physical sciences, mathematics, and social/behavioral sciences.

Standard III-B: Demonstrate knowledge of basic human communication processes, including their biological, neurological, acoustic, psychological, developmental, linguistic and cultural bases.

Standard III-C: Demonstrate knowledge of the nature of speech, language, hearing and communications disorders and differences including their etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates.

These standards will be achieved through a combination of lecture presentations (on Blackboard), live online labs (via Elluminate), assigned readings, and other assignments. Progress toward these goals will be measured by your performance on assignments and assessments.

REQUIRED MATERIALS

Textbook: Raphael, L. J., Borden, G. J., & Harris, K. (2007). *Speech science primer: Physiology, acoustics, and perception of speech* (5th Edition). Baltimore, MD: Lippincott, Williams, & Wilkins.

Note: Other assigned readings will be posted on Blackboard in Adobe .pdf format.

Calculator: You will need a calculator with a logarithm (log) function.

TECHNOLOGY REQUIREMENTS

- Daily, reliable internet connection: high speed internet service is highly recommended.
- Active USF NetID –To activate, follow the directions in [How to Get Started](#) on USF website. If you have difficulties connecting to Blackboard, contact the **Help Desk** ASAP.
- Regular access to a fax machine or a scanner to submit assignments.
- Requirements for [Elluminate](#):
 - Headset with microphone
 - 20 MB free disk space
 - 28.8 Kbps Internet connection
 - The following specifications:

Windows Client	Mac Client	Linux Client
Windows 2000/XP/Vista Pentium III 500 MHz processor	Mac OS X 10.2.8, 10.3.9 or 10.4 G3, G4, G5 or Intel Processor	Red Hat Linux (RHEL4), Novell SUSE 9 or 10 Pentium III 500 MHz processor 256 MB RAM

COURSE FORMAT

This course is 100% online and is designed to be an interactive experience. Course material will be presented in two formats:

1) Asynchronous (own your own, via Blackboard): This includes reading and other assignments, assessments, web resources, and lectures (PowerPoint, videos, podcasts, etc.) that will be posted in Blackboard. Lectures are intended to clarify reading and highlight important concepts and their application, with some opportunity to practice on your own.

2) Synchronous (live): Labs will be presented live online via [Elluminate](#) (web-conferencing software) three times during the semester, on Tuesday evenings (light green cells on schedule

below). Labs will provide live interaction for questions, discussion, collaborative practice, and opportunities to hear guest speakers. Attendance for labs is recommended, but not mandatory. Labs will be recorded and available to view on your own.

ASSIGNMENTS/ASSESSMENTS

- **Welcome discussion board (DB):** The welcome discussion board is an opportunity to introduce yourself to the class and respond to other students' interests and experiences.
 - Welcome DB is worth **10 points**.
- **Homework:** There will be 8 homework (or, if you prefer, "homefun") assignments. The purpose of these assignments is to provide application and practice of the material.
 - Each homework assignment will be worth **15 points**.
- **Quizzes (blue cells in schedule below):** There will be 4 quizzes throughout the semester. Quizzes will be open-book, but you will be given a limited amount of time and only one opportunity to take each quiz. These quizzes will serve as the main form of assessment for the course.
 - Each quiz will be worth **50 points**.

DUE DATES

The schedule below is based on a Monday-Sunday week. All homework assignments are due (must be posted in Blackboard) by 11:59 pm EST on Sunday at the end of the given week. **One point will be deducted for each day an assignment is overdue.**

PROJECTED SCHEDULE

Date (week of)	Topic	Reading	Assignment/Assessment	Other activities
Week 1	Welcome and Overview	Primer Ch. 1 & 2	- Review syllabus and materials in Week 1 folder - Welcome DB	
Week 2	Simple & complex periodic waves	Primer Ch. 3, pp. 31-45 Ferrand pp.7-32	Homework #1	Illuminate lab 1 Tuesday, 6:00-8:30
Week 3	Propagation & transmission, dB, resonance	Primer Ch. 3 pp. 45-53 Ferrand, pp. 32-48	Homework #2	Prepare for Quiz 1
Week 4	Quiz 1			
Week 5	Resonators as filters, anatomy for respiration & phonation	Ferrand, pp. 44-48 Primer Ch. 4 pp. 70-82, Ch. 5 pp. 85-93	Homework #3	
Week 6	Vocal fold vibration and source-filter theory	Primer Ch. 5 pp. 93-102, Ch. 6 pp. 105-121	Homework #4	Illuminate lab 2 Tuesday 6:00-8:30
Week 7	Acoustic analysis	Primer Ch. 12, 281-291		Prepare for Quiz 2

Week 8	Quiz 2			
Week 9	Source-filter review, vowels	Primer Ch. 6, pp. 113-130	Homework #5	
Week 10	Consonants	Primer Ch. 7, pp. 131-154	Homework #6	Illuminate lab 3 Tuesday, 6:00-8:30
Week 11	Context & prosody	Primer Ch. 7, pp. 155-163	Homework #7	Prepare for Quiz 3
Week 12	Quiz 3			
Week 13	Acoustic cues, speech perception	Primer Ch. 10, pp. 213-233, Ch. 11 pp. 237-244	Homework #8	ASHA Convention week
Week 14	Thanksgiving week: No class!			
Week 16	Technology	Pickett, Ch. 17, pp. 324-342		Prepare for Quiz 4
Finals week	Quiz 4			

REFERENCES

Ferrand, C. T. (2007). *Speech science: An integrated approach to theory and clinical practice* (2nd Edition). Boston: Allyn & Bacon.

Pickett, J. M. (1999). *The acoustics of speech communication: Fundamentals, speech perception theory, and technology*. Needham Heights, MA: Allyn & Bacon.

GRADING

The point totals from all assignments and quizzes will be totaled, for total possible 330 points. Remember, late submissions will be penalized one point per day overdue. Total accumulated points will be compared with the following letter grade percentage cut-offs:

Grade	Points earned	Percentage
A+	323-330	98-100%
A	307-322	93-97%
A-	297-306	90-92%
B+	290-296	88-89%
B	274-289	83-87%
B-	264-273	80-82%
C+	257-263	78-79%
C	241-256	73-77%
C-	231-240	70-72%

INCOMPLETE GRADES

An "I" grade may be awarded at the discretion of the instructor only when the student is otherwise earning a passing grade. Students are advised to initiate a written contract for incomplete grades. The contract should include a description of the work to be completed, the

date by which the work is to be submitted and should be approved and signed by the course instructor.

ACADEMIC INTEGRITY/DISHONESTY

The USF policy on Academic Integrity and Academic Dishonesty can be found at: <http://www.ugs.usf.edu/catalogs/0405/adadap.htm> will be followed in this course. Any form of cheating or aiding others who cheat on examinations constitutes unacceptable deceit and dishonesty and will result in an automatic grade of “F” for the course.

SPECIAL NEEDS

Students with disabilities are encouraged to consult with me as soon as possible. If you need course adaptations or accommodations because of a disability, a letter from the Office of Student Disability Services (SDS) is required. SDS is located in C107, phone 941-359-4741; TTY 941-359-4666.

RELIGIOUS OBSERVANCE

Students who anticipate the necessity of missing any class time due to the observation of a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second week of class.

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