

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

**Syllabus**  
**SPA 3011 Introduction to Speech Science**  
**Spring 2011 (12 Weeks)**  
**This course is 100% online**

**Instructor Information**

Robin Danzak, Ph.D.

USF Sarasota-Manatee, College of Arts & Sciences, B213

Phone: 941-359-4249

E-mail: [rdanzak@sar.usf.edu](mailto:rdanzak@sar.usf.edu)

Office hours: Wednesday, 10:00-12:00 and by appointment

I will respond to e-mail promptly. Be sure to check your USF email and Blackboard daily for class announcements and communications.

**How to use USF email:**

1. Login to blackboard: <https://my.usf.edu>
2. Stay on the Welcome screen
3. Scroll down to USF email services.
4. Click the link to "gmail". This will take you to your USF mail.

If you have general 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.**

**Blackboard support resources**

- Online tutorials: [http://www.sarasota.usf.edu/CampusComputing/Documents/CC\\_Student\\_Resources.php](http://www.sarasota.usf.edu/CampusComputing/Documents/CC_Student_Resources.php)
- Live online help: <http://usfsupport.custhelp.com/cgi-bin/usfsupport.cfg/php/enduser/chat.php>

**USF Help Desk for tech support:**

**[E-mail us at help-ac@usf.edu](mailto:help-ac@usf.edu)**

Or call 813-974-1222 or 1-866-974-1222.

**PROGRAM MISSION STATEMENT**

The mission of the LSH post-baccalaureate online course sequence is to prepare students with degrees in other fields to apply for Masters Degree programs in speech-language pathology. This preparation includes the acquisition of foundational concepts of language, speech, and hearing sciences as well as the advancement of critical thinking and problem-solving skills that will serve students both in graduate school and as future speech-language pathologists.

**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* (5<sup>th</sup> Edition). Baltimore, MD: Lippincott, Williams, & Wilkins.

**Note:** Other assigned readings will be posted on Blackboard in Adobe .pdf format. (Reference: Ferrand, C. T. (2007). *Speech science: An integrated approach to theory and clinical practice* (2<sup>nd</sup> Edition). Boston: Allyn & Bacon). **THIS BOOK IS NOT REQUIRED.**

**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.
- **Scanning capabilities:** Regular access to a scanner to submit assignments.
- Requirements for [Elluminate](#):
  - Speakers and microphone (or headset w/mic)
  - 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) intermittently throughout the semester (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 **5 points**.
- **Homework:** There will be 8 homework assignments. The purpose of these assignments is to provide application and practice of the material, which will also help prepare you for quizzes. Each homework assignment will be worth **5 points**.
- **Quizzes (blue cells in schedule below):** There will be 3 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**.

**NOTE:** assignments and assessments will be weighted. See explanation in Grading section below.

**DUE DATES**

The schedule below is based on a Monday-Sunday week. Unless otherwise specified, all homework assignments are due (must be posted in Blackboard) by 11:59 pm EST on Sunday at the end of the given week. Spring break, the week of March 14, is not considered part of the 12 weeks of the course. The last week of class will be the week of April 4.

**IMPORTANT: In this course, late homework will not be accepted; late submissions will receive a zero for the assignment.**

NOTE: Be sure your assignments are correctly uploaded and attached in BB. “Empty” assignments (i.e. submission without attachment) will be considered LATE and points will be deducted accordingly. See instructions in Week 1 folder (in Course Docs) for how to upload, attach, and submit assignments.

Submissions that are not in the requested file format will be deducted 3 points and must be resubmitted within 24 hours of my request. If resubmission is beyond 24 hours of request, late penalties (see above) will apply. Request for resubmission may be via email or comment in your grades.

**PROJECTED SCHEDULE**

<b>Date (week of)</b>	<b>Topic</b>	<b>Reading</b>	<b>Assignment/ Assessment</b>	<b>Other activities</b>
Week 1: 1/10	Welcome and Overview	Primer Ch. 1 & 2	- Review syllabus and materials in Week 1 folder - Welcome DB DUE 1/16	
Week 2: 1/17	Simple & complex periodic waves	Primer Ch. 3, pp. 31-45 Ferrand pp.7-32	Homework 1 DUE 1/23	
Week 3: 1/24	Propagation & transmission, dB, resonance	Primer Ch. 3 pp. 45-53 Ferrand, pp. 32-48	Homework 2 DUE 1/30	Illuminate lab 1 Wednesday 1/26 6:00-8:00
Week 4: 1/31	Quiz 1			
Week 5: 2/7	Resonators as filters, anatomy for respiration & phonation	Ferrand, pp. 44-48 Primer Ch. 4 pp. 70-82, Ch. 5 pp. 85-93	Homework 3 DUE 2/13	
Week 6: 2/14	Vocal fold vibration and source-filter theory	Primer Ch. 5 pp. 93-102, Ch. 6 pp. 105-121	Homework 4 DUE 2/20	Illuminate lab 2 <b>TUESDAY 2/15</b> 6:00-8:00
Week 7: 2/21	Acoustic analysis	Primer Ch. 12, 281-291	Quiz 2	
Week 8:	Source-filter	Primer Ch. 6, pp. 113-	Homework 5	

2/28	review, vowels	130	DUE 3/6	
Week 9: 3/7	Consonants	Primer Ch. 7, pp. 131-154	Homework 6 DUE 3/13	
3/14	<b>SPRING BREAK NO CLASS</b>			
Week 10: 3/21	Context & prosody	Primer Ch. 7, pp. 155-163	Homework 7 DUE 3/27	
Week 11: 3/28	Acoustic cues, speech perception	Primer Ch. 10, pp. 213-233, Ch. 11 pp. 237-244	Homework 8 DUE 4/3	Elluminate lab 3 Wednesday 3/30 6:00-8:00
Week 12: 4/4	<b>Quiz 3</b>			

### GRADING

Quizzes will be weighted 25% each, to comprise a total of 75% of the final grade. All assignments (welcome DB and homework) combined will comprise the remaining 25%. Your final grade will be based on the following percentage cut-offs for each letter grade:

Grade	Percentage	Grade	Percentage
A+	98-100%	B-	80-82%
A	93-97%	C+	78-79%
A-	90-92%	C	73-77%
B+	88-89%	C-	70-72%
B	83-87%		

**LAST DAY TO DROP:** March 26, 2011 is the last day to drop with a ‘W’; no refund, no academic penalty.

### ACADEMIC INTEGRITY/DISHONESTY

The University considers any form of plagiarism or cheating on exams, projects, or papers to be unacceptable behavior. Please be sure to review the university’s policy in the catalog: [www.ugs.usf.edu/catalogs/0607/adadap.htm](http://www.ugs.usf.edu/catalogs/0607/adadap.htm).

### 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.

### ACCOMODATIONS

Students are responsible for registering with the Office of Students with Disabilities Services (SDS) in order to receive academic accommodations. Reasonable notice must be given to the SDS office (typically 5 working days) for accommodations to be arranged. It is the responsibility of the student to provide each instructor with a copy of the official Memo of Accommodation.

Contact Information: Pat Lakey, Coordinator, 941-359-4714, [plakey@sar.usf.edu](mailto:plakey@sar.usf.edu), [www.sarasota.usf.edu/Students/Disability/](http://www.sarasota.usf.edu/Students/Disability/)

**RELIGIOUS OBSERVANCE**

Students who anticipate the necessity of missing 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.

**IN CASE OF EMERGENCY**

In the event of an emergency, it may be necessary for USF to suspend normal operations. During this time, USF may opt to continue delivery of instruction through methods that include but are not limited to: Blackboard, Elluminate, Skype, and email messaging and/or an alternate schedule. It's the responsibility of the student to monitor Blackboard site for each class for course specific communication, and the main USF, College, and department websites, emails, and MoBull messages for important general information.

It is strongly recommended that you become familiar with the USF Sarasota-Manatee Emergency Action Plan <http://www.sarasota.usf.edu/Alpha/ready/EAP.pdf> and of the Safety Preparedness site <http://www.sarasota.usf.edu/Alpha/ready/index.html>

**1-800 Hotline:** The USF hotline at 800-992-4231 is updated with pre-recorded information during an emergency.