INTRODUCTION TO SPEECH SCIENCE
Fall 2014 (3 credits)
This course is 100% online via Canvas

Course Syllabus

Instructor: Jenna Luque, MA, CCC-SLP
Office: USF Sarasota-Manatee, B212
Email: jluque@mail.usf.edu
Online Office Hrs: By appointment via Blackboard
  Collaborate in Canvas
    Please e-mail Mrs. Luque to set an appointment.

Class Information:
Asynchronous online class
Access the course via CANVAS:
Go to my.usf.edu
Log in with your Net-ID & password
Click on Canvas at the top of the page

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

Need help?
CANVAS support is available through USFSM E-Learning staff from 9 am to 5 pm Monday through Friday.
Please call or email either
Carlos Montoya | cmmontoya@sar.usf.edu | 941-359-4295

The USF Tampa IT Helpdesk provides 24 hour support for CANVAS. Please call 813-974-1222 or email:
help@usf.edu if you need assistance outside of USFSM’s E-Learning hours.
CANVAS tutorials can be found in the Student Quickstart Guide at http://guides.instructure.com/m/8470.

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.

PREREQUISITES: None

COURSE OBJECTIVES
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 Canvas), assigned readings, and other assignments. Progress toward these goals will be measured by your performance on assignments and assessments.

At the conclusion of this course, students will be able to

- Demonstrate knowledge of basic concepts related to the acoustics of speech including the acoustics of speech production.
- Describe the acoustic properties of speech sounds.
- Demonstrate knowledge of applications of speech acoustics.
- Demonstrate knowledge of basic concepts related to speech perception.

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**REQUIRED TEXT AND MATERIALS**


Available via Kindle Store (Sound files will be provided via Canvas):


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**TECHNOLOGY & OTHER REQUIREMENTS**

1. Active USF NetID (for help, go to [http://it.usf.edu/services/netid](http://it.usf.edu/services/netid))
2. Assignments & additional materials are posted in CANVAS; access to CANVAS is required.
3. Assignments will be submitted electronically in CANVAS. Students will need a scanner, smartphone app, digital camera (e.g., phone camera, or other electronic device) to upload a file of their completed assignments to CANVAS. Files must be in a format that is able to be opened by the instructor (e.g., pdf, .doc, .docx, jpeg).

**Computer hardware and software with a reliable daily internet connection; high speed connection (DSL/cable or better) is required.**

FIRST WEEK’S ATTENDANCE
Syllabus Module Discussion board: Due Thursday by 9 a.m. EST of the first week of class
Students are required to submit an entry to the Discussion Board by 9 a.m. on Thursday of the first week of class. This is the indication that you are attending the course and will be marked “present” for first-week attendance. Students who do not complete this assignment (or do not e-mail the instructor with acknowledgement of the first week’s class attendance) by Thursday at 9 a.m. will be marked “absent” for the first week’s attendance. Being “absent” can result in the student being dropped from the class (see university policy).

GRADING, EVALUATION AND ATTENDANCE POLICIES
1. Lectures: The course will provide recorded lectures accessed via the Panopto link in each weekly Module in CANVAS. Modules will open on Monday of each week at midnight.
2. Readings & Videos: Required readings are assigned from the course textbook and other documents that are uploaded to CANVAS. Readings, Panopto lectures, videos, and other materials correspond to the topics presented in lectures.
3. Assignments (10 points each)
   Within Modules in Canvas, students will find assignments weekly. Complete the assignment by following the directions and submit by the due date as instructed in the Module.
   Assignments that cannot be easily read by the instructor will be returned to the student and the student will have 1 day to resubmit the work ensuring that the handwriting and quality of the image is clear & easily visible. Work not resubmitted within 1 day will be considered late.
   Due date for all Assignments: Sunday at 11:59 pm EST unless otherwise indicated.
4. Exams (100 points each)
   There will be 4 exams throughout the semester.
   You will be given a limited amount of time and only one opportunity to take each exam.
   These exams will serve as the main form of assessment for the course. Each exam will be worth 100 points. You will have 2 hours to complete the exam. Exams are closed book; you may not use any resources.

GRADING
The sum of all of the points earned during this class will determine your final grade for the course. The maximum number of points possible are 520 points.

<table>
<thead>
<tr>
<th>Maximum Points</th>
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<tbody>
<tr>
<td>Exams 400</td>
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<tr>
<td>Assignments 120</td>
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<tr>
<td>Total 520</td>
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</tbody>
</table>
Total points earned during the semester correspond to the percentage and letter grade as listed in this table.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>98-100%</td>
<td>C+</td>
<td>78-79%</td>
</tr>
<tr>
<td>A</td>
<td>93-97%</td>
<td>C</td>
<td>73-77%</td>
</tr>
<tr>
<td>A-</td>
<td>90-92%</td>
<td>C-</td>
<td>70-72%</td>
</tr>
<tr>
<td>B+</td>
<td>88-89%</td>
<td>D+</td>
<td>68-69%</td>
</tr>
<tr>
<td>B</td>
<td>83-87%</td>
<td>D</td>
<td>63-67%</td>
</tr>
<tr>
<td>B-</td>
<td>80-82%</td>
<td>D-</td>
<td>60-62%</td>
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<tr>
<td></td>
<td></td>
<td>F</td>
<td>below 60%</td>
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A course grade of incomplete will only be approved if, for documented reasons beyond the student’s control (e.g., extended hospitalization), required “ assignments” have not been completed by the end of the term and the student was in good standing prior to the situation.

**COURSE POLICIES & EXPECTATIONS**

**Assignments Policy & Class Expectations**

Students are responsible for completing all of the tests, quizzes, and weekly class assignments, and are accountable for learning course content. It is expected that students will take their studies seriously, and demonstrate professional and ethical integrity including timely completion and submission of assignments. All assignments, quizzes, and tests must be completed by the due date and time listed in CANVAS. All due dates are firm deadlines and not negotiable. **A 10% grade reduction will be imposed for late assignments each day it is late,** they may be submitted up to 1 week after the due date/time. Assignments submitted one week or greater after the due date will receive a grade of “0”. Tests and quizzes must be completed during the available time period; there is no opportunity for late tests or quizzes. An exception may be considered (with evidence of written documentation (e.g., hospital discharge note, physician note, death certificate) in cases of a serious, unforeseen emergency or grave situation (e.g., accident, severe illness, hospitalization, death, etc.) which affects your ability to complete classwork before the due date. Should you experience an emergency or grave situation, you must notify the instructor via e-mail before the assignment due date. **Technology failure or travel is never considered an emergency or serious situation.** It is recommended that you allow sufficient time to complete to complete course work in advance of the deadline; this will also allow time to resolve any technology failure that may occur. Resources for assistance with technology difficulty include USF Tampa IT Helpdesk or USFSM E-Learning staff (see page 1). No extra credit work is available in this course.

**USF Sarasota-Manatee Policies and Procedures**

**Academic 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 USFSM Undergraduate Catalog or USFSM Graduate Catalog and the USF Student Code of Conduct.
Academic Disruption

The University does not tolerate behavior that disrupts the learning process. The policy for addressing academic disruption is included with Academic Dishonesty in the USFSM Undergraduate Catalog or USFSM Graduate Catalog and the USF Student Code of Conduct.

Undergraduate: http://www.sarasota.usf.edu/Academics/Catalogs/
Graduate: http://www.sarasota.usf.edu/Academics/Catalogs/
USF Student Code of Conduct: http://www.sa.usf.edu/srr/page.asp?id=88

Contingency Plans

In the event of an emergency, it may be necessary for USFSM to suspend normal operations. During this time, USFSM may opt to continue delivery of instruction through methods that include but are not limited to: Canvas, Elluminate, Skype, and email messaging and/or an alternate schedule. It’s the responsibility of the student to monitor Canvas site for each class for course specific communication, and the main USFSM and College websites, emails, and MoBull messages for important general information. The USF hotline at 1 (800) 992-4231 is updated with pre-recorded information during an emergency.

Disabilities Accommodation

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:
Disability Coordinator: 359-4714; email: disabilityservices@sar.usf.edu
and website: http://www.usfsm.edu/students/disability/

Fire Alarm Instructions

At the beginning of each semester please note the emergency exit maps posted in each classroom. These signs are marked with the primary evacuation route (red) and secondary evacuation route (orange) in case the building needs to be evacuated. See Emergency Evacuation Procedures.

Religious Observances

The University recognizes the right of students and faculty to observe major religious holidays. Students who anticipate the necessity of being absent from class for a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second week of classes.

Emergency Preparedness

It is strongly recommended that you become familiar with the USF Sarasota-Manatee Emergency Action Plan on the Safety Preparedness site http://www.sarasota.usf.edu/facilities/SafetyPreparedness.php
Web Portal Information
Every newly enrolled USF student receives an official USF e-mail account. Students receive official USF correspondence and Canvas course information via that address. Therefore it is the student’s responsibility to check their USF email regularly.

Instructor Copyright
Students may not sell notes or other course materials.

CORRESPONDENCE AND COMMUNICATION WITH INSTRUCTOR & COURSE ANNOUNCEMENTS
Please use the message function in CANVAS or my e-mail address (jluque@mail.usf.edu) to contact me and place the course number (SPA3011) in the subject line. This will be much appreciated and ensure that your e-mail will not be lost among others; I am teaching multiple classes. I check e-mail daily, and will post an announcement if there is an exception. If I do not respond to your e-mail within 48 hours, assume that I did not receive it and please resend the e-mail. While I attempt to respond to e-mails as quickly as possible, other professional duties may not allow me to respond to you immediately.
*Please remember to check you USF e-mail regularly for class announcements and other communication.
### Tentative Class Schedule

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<thead>
<tr>
<th>Week</th>
<th>Lectures Topics</th>
<th>Textbook Readings</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Syllabus; Overview</td>
<td>Ch. 1</td>
</tr>
<tr>
<td>2</td>
<td>Simple Periodic Waves</td>
<td>Ch. 2, pgs. 17-25</td>
</tr>
<tr>
<td>3</td>
<td>Complex Tones; Resonances</td>
<td>Ch. 2, pgs. 25-40</td>
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<tr>
<td>4</td>
<td>Raw Materials</td>
<td>Chs. 3-4</td>
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<tr>
<td></td>
<td><strong>Exam 1</strong></td>
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<tr>
<td>6</td>
<td>Resonators and Filters; Vowels</td>
<td>Ch. 5; Ch. 10, pgs. 199-203</td>
</tr>
<tr>
<td>7</td>
<td>Consonants</td>
<td>Ch. 6; Ch. 10, pgs. 203-219</td>
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<tr>
<td></td>
<td><strong>Exam 2</strong></td>
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</tr>
<tr>
<td>9</td>
<td>Prosody</td>
<td>Ch. 7</td>
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<tr>
<td>10</td>
<td>Theories of Speech Production</td>
<td>Ch. 8</td>
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<tr>
<td></td>
<td><strong>Exam 3</strong></td>
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<tr>
<td>12</td>
<td>Speech Perception: Auditory Foundations</td>
<td>Ch. 9</td>
</tr>
<tr>
<td>13</td>
<td>Theories of Speech Perception</td>
<td>Ch. 11</td>
</tr>
<tr>
<td>14</td>
<td>Theories of Speech Perception Continued</td>
<td>Ch. 11</td>
</tr>
<tr>
<td>15</td>
<td>Instrumentation</td>
<td>Chs. 13-14</td>
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<tr>
<td></td>
<td><strong>Exam 4</strong></td>
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