

University of Florida
College of Public Health & Health Professions Syllabus
SPA 3032 Fundamentals of Hearing (3 credit hours)
Fall Semester 2021
Delivery Format: On-Line

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Virtual Office Hours: By appointment
Preferred Course Communication: e-mail

Prerequisite: None

Course Description: Concepts and principles relevant to the normal hearing processes: acoustics, gross anatomy, psychophysical methods and basic subjective correlates of the auditory system.

Purpose and Outcome: The purpose of this course is to introduce the student to the field of audiology. Students will learn about the components of sound, the anatomy and physiology of the auditory system, how sound is processed by the auditory system, and will be provided a basic overview of how hearing is assessed by an audiologist and the associated treatment options used for those with various degrees of hearing loss.

After successful completion of this course, students will be able to demonstrate the course objectives (listed below) as well as be prepared for SPA 4302 (Audiometry and Hearing Disorders) and SPA 4321 (Audiologic Rehabilitation).

Course Objectives:

Students will be able to:

- Provide a basic definition of audiology
- Describe the requirements to become an audiologist
- Identify at least three professional organizations for audiologist
- Describe work settings, services provided, and populations served by audiologist
- Identify the part and function of the peripheral and central auditory systems
- Describe the nature of sound (components of sound; how it is prorogated, etc.)
- Briefly describe decibels and its relationship to audiology
- Identify and describe the type, configuration, and severity of hearing loss based on audiometric information
- Describe primary causes of hearing loss, including conductive hearing loss, sensorineural hearing loss and mixed hearing loss
- Describe and identify audiometric equipment, including components and function

- Briefly discuss tools and assessments used to perform a complete audiometric evaluation
- Write a brief history or case report; identify needed/relevant information for effective report writing
- Identify basic amplification devices and their function; identify primary candidates for each device

Instructional Method: Lectures, readings, and class assignments and/or discussions.

Required Textbook: Clinical Audiology: An Introduction, 3rd edition (Authors: Stach & Ramachandran)

ISBN13: 978-1-94488-371-3

Optional Textbook: Fundamental of Hearing: An Introduction, 5th edition (Author: Yost)

What is expected of you?

You are expected to actively engage in the course throughout the semester. You must come to class prepared by completing all out-of-class assignments, including reading **PRIOR** to the viewing the class lecture. This preparation gives you the knowledge or practice needed to engage in higher levels of learning during the live class sessions. If you are not prepared for each session, you may struggle to keep pace with the activities occurring, and it is unlikely that you will reach the higher learning goals of the course. Similarly, you strongly encourage to attend and participate in the live discussion on **Tuesdays at 8 pm ET**. A recording of this live discussion will be provided for those that cannot attend. Your participation fosters a rich course experience for you and your peers that facilitates overall mastery of the course objectives.

Course Content Schedule

Week	Dates	Topics	Assignment(s)
1	8/23 – 8/29	1) Introduction to Instructor 2) Review of Syllabus and course expectations 3) Introduction to Audiology	1) Read Chapter 1: The Profession of Audiology in the United States 2) Assignment: Brief Questionnaire regarding Audiology
2	8/30 – 9/5	1) Continue with Intro to Audiology 2) History of Audiology 3) Various Audiology Associations	1) Review Ch. 1 as necessary 2) Assignment: 3 New Things

3	9/6 – 9/12	<ol style="list-style-type: none"> 1) The Auditory System/A & P 2) Peripheral Auditory System 3) Central Auditory System 	<ol style="list-style-type: none"> 1) Read Chapter 2: Sections “The Auditory System” through “How We Hear” 2) Assignment: Order of Sound through the Auditory System
4	9/13 – 9/19	<ol style="list-style-type: none"> 1) Review of weeks 1 – 3 2) Test 1 	1) Test 1
5	9/20 – 9/26	<ol style="list-style-type: none"> 1) Review of Test 1 (live discussion) 2) Nature of Sound 	1) Read Chapter 2: Section “The Nature of Sound”
6	9/27 – 10/3	<ol style="list-style-type: none"> 1) Continue with Nature of Sound 2) Understanding decibel (dB) 	<ol style="list-style-type: none"> 1) Read provided Yost pages 2) Assignment: Identifying parts of Sinewaves
7	10/4 – 10/10	<ol style="list-style-type: none"> 1) Intro to the audiometer and the audiogram 	1) Read Chapter 6: Sections “Equipment and Test Environment” and “The Audiogram”
8	10/11 – 10/17	<ol style="list-style-type: none"> 1) Review weeks 5 – 7 2) Test 2 	<ol style="list-style-type: none"> 1) Test 2 2) Assignment: Mid-program Survey
9	10/18 – 10/24	<ol style="list-style-type: none"> 1) Review of Test 2 (Live discussion) 2) The Nature of Hearing Disorders 3) Impact of HL 4) Revisiting Audiograms 	<ol style="list-style-type: none"> 1) Read Chapter 3 2) Assignment: Identifying Audiograms
10	10/25 – 10/31	<ol style="list-style-type: none"> 1) Causes of Hearing Loss 	<ol style="list-style-type: none"> 1) Read Chapter 4 2) Assignment: Identify type of HL
11	11/1 – 11/7	<ol style="list-style-type: none"> 1) Intro to Audiologic Diagnostics: Comprehensive Evaluations 2) Test Battery Approach (brief) 	<ol style="list-style-type: none"> 1) Read Chapter 5 2) Read Chapter 10: Section “Test Battery Approach in Adults”

12	11/8 – 11/14	1) Review weeks 9 – 11 2) Test 3	1) Test 3
13	11/15 – 11/21	1) Review of Test 3 (live discussion) 2) Brief overview of Speech Audiometry 3) Brief overview of Immittance	1) Read/skim Chapter 7 2) Read/skim Chapter 8
14	11/22 – 11/23	1) Brief Overview of Report Writing	1) Read Chapter 11
15	11/29 – 12/ 5	1) Brief Overview to Treatment Options, including hearing aids, implantable devices, assistive technology, etc.	1) Read Chapter 12 2) Assignment: Basic Identification of Types of Amplification Devices
16	12/6 – 12/ 8	1) Summary of Audiology, weeks 1-2 2) Review for Test 4, weeks 13-15	1) Write: Summary Paper 2) Assignment: End-of-Semester Questionnaire
17	12/13 – 12/17	1) Exam Period: Test 4	1) Test 4

** Syllabus schedule may be modified during the semester.

Course Assignments

Multiple assignments to facilitate understanding of concepts will be assigned throughout the semester. Students are expected to complete the assignments and submit via Canvas by the assigned date (posted in Canvas). Assignments are considered late immediately following the assigned due date/time. A **five percent reduction** in grade will occur for each day the assignment is late. Assignments submitted greater than 3 days after the due date, without prior approval by the instructor, will not be accepted and will result in a grade of zero.

Course Tests

All tests must be completed by the due date. Students will utilize HonorLock in Canvas to complete the tests. Students must complete the exams **independently**. Should students require additional accommodations, they should contact the instructor at the beginning of class, or as soon as it is known, accommodations need to be made, so that the appropriate adjustments can be made in a reasonable timeframe.

Make-up Work

Students are expected to turn in all assignments via Canvas by the due date. However, pending prior approval, or documentation of an illness or other recognized exemption, adjustments to the due-date of assignments may be made on a case-by-case basis. Students are to contact the instructor as soon as possible, preferably prior to the deadline, to discuss adjustments in the due date that will not result in reduction of points. **One** (1) exam may be rescheduled within the semester and only with prior approval and/or documentation supporting an acceptable excused absence.

Course Grade

The final grade will be determined as follows:

Tests:	60% [15% per test]
Assignments/Activities:	30%
Summary Paper:	10%

Grading:

Grading Percentage Earned	Letter Grade	Grade Point
93-100%	A	4.0
90-92%	A-	3.67
87-89%	B+	3.33
83-86%	B	3.0
80-82%	B-	2.67
77-79%	C+	2.33
73-76%	C	2.0
70-72%	C-	1.67
67-69%	D+	1.33
63-66%	D	1.0
60-62%	D-	0.67
Below 60%	F	0.0
-	WF	0.0
-	I	0.0
-	NG	0.0
-	S-U	0.0

More information on UF grading policy may be found at:

<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

For technical support for this class, please contact the UF Help Desk at:

- helpdesk@ufl.edu
- (352) 392-HELP - select option 2
- <https://helpdesk.ufl.edu/>

Additional Academic Resources

[Career Connections Center](#): Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

[Library Support](#): Various ways to receive assistance with respect to using the libraries or finding resources.

[Teaching Center](#): Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.

[Writing Studio](#): 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints On-Campus: [Visit the Student Honor Code and Student Conduct Code webpage for more information.](#)

On-Line Students Complaints: [View the Distance Learning Student Complaint Process.](#)

ZOOM Etiquette (Should you attend a virtual class meeting)

- **Keep video ON and microphone OFF.**
- **Sit at a table, not propped in bed.**
- **Eat before class.**
- **Limit visual interruptions (e.g., pets)**

Expectations Regarding Attendance, Course Behavior, and Communication Guidelines

You are expected to attend class and participate. Each class member has a different perspective and sharing provides a more meaningful exchange of ideas and interest. As a professional you will often be required to voice your opinion and perspective. Be respectful to the ideas of peers or the instructor if they differ from your own beliefs or experiences.

You may use your laptop or tablet for class notes and class participation. Reviewing your e-mail, on-line shopping, completing other assignments or any other non-class related activity is

disrespectful and distracting and you will be asked to remove yourself from class. Use of phones during class is unacceptable there will be ample breaks in class to attend to your personal calls or texts. If there is an impending emergency or pressing issue please discuss with me prior to the beginning of class.

Academic Integrity

Students are expected to act in accordance with the University of Florida policy on academic integrity. As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge:

“We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”

You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied:

“On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For additional information regarding Academic Integrity, please see Student Conduct and Honor Code or the Graduate Student Website for additional details:

<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>

Please remember cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior.

Online Faculty Course Evaluation Process

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

SUPPORT SERVICES

Accommodations for Students with Disabilities

If you require classroom accommodation because of a disability, it is strongly recommended you register with the Dean of Students Office <http://www.dso.ufl.edu> within the first week of class or as soon as you believe you might be eligible for accommodations. The Dean of Students Office will provide documentation of accommodations to you, which you must then give to me as the instructor of the course to receive accommodations. Please do this as soon as possible after you receive the letter. Students with disabilities should follow this procedure as early as possible in the semester. The College is committed to providing reasonable accommodations to assist students in their coursework.

Counseling and Student Health

Students sometimes experience stress from academic expectations and/or personal and interpersonal issues that may interfere with their academic performance. If you find yourself facing issues that have the potential to or are already negatively affecting your coursework, you are encouraged to talk with an instructor and/or seek help through University resources available to you.

- The Counseling and Wellness Center 352-392-1575 offers a variety of support services such as psychological assessment and intervention and assistance for math and test anxiety. Visit their web site for more information: <http://www.counseling.ufl.edu>. On line and in person assistance is available.
- You Matter We Care website: <http://www.umatter.ufl.edu/>. If you are feeling overwhelmed or stressed, you can reach out for help through the You Matter WeCare website, which is staffed by Dean of Students and Counseling Center personnel.
- The Student Health Care Center at Shands is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at Shands offers a variety of clinical services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: <https://shcc.ufl.edu/>
- Crisis intervention is always available 24/7 from:
Alachua County Crisis Center:
(352) 264-6789
<http://www.alachuacounty.us/DEPTS/CSS/CRISISCENTER/Pages/CrisisCenter.aspx>
- **University Police Department:** [Visit UF Police Department website](#) or call 352-392-1111 (or 9-1-1 for emergencies).

- **UF Health Shands Emergency Room / Trauma Center:** For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; [Visit the UF Health Emergency Room and Trauma Center website.](#)

Important: Do not wait until you reach a crisis to talk with someone. Many students have been helped through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.

Inclusive Learning Environment

Public health and health professions are based on the belief in human dignity and on respect for the individual. As we share our personal beliefs inside or outside of the classroom, it is always with the understanding that we value and respect diversity of background, experience, and opinion, where every individual feels valued. We believe in, and promote, openness and tolerance of differences in ethnicity and culture, and we respect differing personal, spiritual, religious and political values. We further believe that celebrating such diversity enriches the quality of the educational experiences we provide our students and enhances our own personal and professional relationships. We embrace The University of Florida's Non-Discrimination Policy, which reads, "The University shall actively promote equal opportunity policies and practices conforming to laws against discrimination. The University is committed to non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information and veteran status as protected under the Vietnam Era Veterans' Readjustment Assistance Act." If you have questions or concerns about your rights and responsibilities for inclusive learning environment, please see your instructor or refer to the Office of Multicultural & Diversity Affairs website: www.multicultural.ufl.edu

Professionalism and COVID

As students pursuing a path in the health professions or public health, it is crucial to demonstrate professional behaviors that reflect integrity and commitment to the health of patients, fellow health professionals, and to populations we serve. To accomplish this, a strong responsibility for the well-being of others must be evident in our decisions, along with accountability for our actions. Professionalism in the health disciplines requires adherence to high standards of conduct that begin long before graduation. This is particularly true during times of health emergencies such as the COVID pandemic, given our professional habits can have a direct impact upon the health of persons entrusted to us.

If you are not vaccinated, get vaccinated. Vaccines are readily available at no cost and have been demonstrated to be safe and effective against the COVID-19 virus. Visit this link for details on where to get your shot, including options that do not require an appointment:

<https://coronavirus.ufhealth.org/vaccinations/vaccine-availability/>. Students who receive the first dose of the vaccine somewhere off-campus and/or outside of Gainesville can still receive their second dose on campus.

In response to COVID-19, the following professional practices are in place to maintain your learning environment, to enhance the safety of our in-classroom interactions, and to protect the health and safety of ourselves, our patients, our neighbors, and our loved ones.

- You are required to wear approved face coverings at all times while in Health Science Center classrooms and within Health Science Center buildings even if you are vaccinated.
- If you are sick, stay home and self-quarantine. Please visit the UF Health Screen, Test & Protect website about next steps, retake the questionnaire and schedule your test for no sooner than 24 hours after your symptoms began. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 (or email covid@shcc.ufl.edu) to be evaluated for testing and to receive further instructions about returning to campus. UF Health Screen, Test & Protect offers guidance when you are sick, have been exposed to someone who has tested positive or have tested positive yourself. Visit the UF Health Screen, Test & Protect website for more information.
- Continue to follow healthy habits, including best practices like frequent hand washing.
- Avoid crowded places (including gatherings/parties with more than 10 people)

Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class. Hand sanitizing stations will be located in every classroom.

Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work. If you are withheld from campus by the Department of Health through Screen, Test & Protect you are not permitted to use any on campus facilities. Students attempting to attend campus activities when withheld from campus will be referred to the Dean of Students Office.

Continue to regularly visit coronavirus.UFHealth.org and coronavirus.ufl.edu for up-to-date information about COVID-19 and vaccination.

COVID-19 Symptoms

See <https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html> for information about COVID-19 symptoms, which may include fever, cough, shortness of breath or difficulty breathing, fatigue, chills, muscle or body aches, headache, sore throat, congestion or runny nose, nausea or vomiting, diarrhea, and loss of taste or smell.

Recording Within the Course

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A "class lecture" is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To "publish" means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

Policy Related to Guests Attending Class

Only registered students are permitted to attend class. However, we recognize that students who are caretakers may face occasional unexpected challenges creating attendance barriers. Therefore, by exception, a department chair or his or her designee (e.g., instructors) may grant a student permission to bring a guest(s) for a total of two class sessions per semester. This is two sessions total across all courses. No further extensions will be granted. Please note that guests are **not** permitted to attend either cadaver or wet labs. Students are responsible for course material regardless of attendance. For additional information, please review the Classroom Guests of Students policy in its entirety. Link to full policy: <http://facstaff.php.ufl.edu/services/resourceguide/getstarted.htm>