

University of Florida
College of Public Health & Health Professions Syllabus
SPA 6581 Advanced Amplification Lab (1 credit lab)
(1 hour) Section
Spring Semester 2023
Delivery Format: On-Campus

Instructor's Name: Emily Gaines, Au.D., CCC-A

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Office Hours: By appointment in-person or via Zoom

Preferred Course Communication: e-mail

Delivery Format: On-Campus

PURPOSE AND OUTCOME

Course Description: This course will apply understanding of current and future technology in amplification systems, recent advances in programmable and digital hearing aids, hearing aid selection procedures for special populations, assistive listening devices, and verification procedures.. **This is the lab course component**

Relation to Program Outcomes

The content of this course is designed to help you meet the following CCC-A Standard IV: Knowledge and Skills. Content will be learned from assigned readings, lectures, and class discussions. Outcomes will be assessed through class discussions, projects and written examinations.

ASHA Learning Outcomes

The content of this course is designed to help you meet the following CCC-A Standard IV: Knowledge and Skills Outcomes and will be assessed through the projects and exams.

A9. Patient characteristics and how they relate to clinical services

A24. The use of instrumentation according to manufacturer's specifications and recommendations

A25. Determining whether instrumentation is in calibration according to accepted standards

D1. The provision of intervention services (treatment) to individuals with hearing loss, balance disorders, and other auditory dysfunction that compromises receptive and expressive communication

D2. Development of a culturally appropriate, audiologic rehabilitative management plan that includes, when appropriate, the following:

1. Evaluation, selection, verification, validation, and dispensing of hearing aids, sensory aids, hearing assistive devices, alerting systems, and captioning devices, and educating the consumer and family/caregivers in the use of and adjustment to such technology

D7. Evaluation of the efficacy of intervention (treatment) services

F1. Measuring functional outcomes, consumer satisfaction, efficacy, effectiveness, and efficiency of practices and programs to maintain and improve the quality of audiologic services

F2. Applying research findings in the provision of patient care (evidence-based practice)

F3. Critically evaluating and appropriately implementing new techniques and technologies supported by research-based evidence

Course Objectives :

- Students will demonstrate knowledge of the effects of compression on the input/output response of hearing aids.
- Students will be able to describe and demonstrate hearing aid characteristics for different digital hearing aids.
- Students will demonstrate knowledge of hearing aid selection criteria and outcome measures.
- Students will be able to list the advantages and disadvantages of directional microphones and noise-reduction circuitry.
- Students will be able to list the reasons reported for hearing aid satisfaction and hearing aid rejection.
- Students will be able to identify and assess the need for assistive listening devices and explain how they are used.

Instructional Methods: guided lab assignments

Course Content Schedule

1	1/11	-Review of Syllabus -Course Introduction -Review of Basic Concepts	-Assignment of Presentation Topics/Groups	
2	1/18	Current Trends, Compression, and Processing review		Class Lab time - Guided Lab 1 assignment
3	1/25	Assistive Technology, Hearing Aid Troubleshooting	QUIZ 1 - Compression	
4	2/1	Amplification in Pediatrics		Lab 1 DUE - Hearing aid clean and checks, Troubleshooting, and checking in new devices
5	2/8	Special Fitting Considerations	QUIZ 2 - Pediatric fittings and Assistive Technology	

6	2/15	Student Presentations on Hearing Aid Manufacturers	Project 1: Hearing Aid Manufacturers Presentation DUE	Class Lab time – Guided Lab 2 assignment
7	2/22	Real Ear Measurements		
8	3/1	Music, Musicians, Tinnitus, Noise Protection	QUIZ 3 – Real Ear Verification	Lab 2 DUE – Fitting advanced features
9	3/8	MIDTERM EXAM	MIDTERM EXAM	
10	3/15	SPRING BREAK	SPRING BREAK	
11	3/22	-Case Studies -Guest Lecturer	QUIZ 4 – Fitting considerations for special populations	Class Lab time – Guided Lab 3 assignment
12	3/29	Electrical and Acoustical Hearing/Neuroscience and Hearing Aids		Lab 3 DUE – Real Ear Verification
13	4/5	Student Presentations	ALL PROJECT 2 POWERPOINTS DUE	Class Lab time – Guided Lab 4 Assignment

		NO IN PERSON CLASS	
14	4/12	Review materials posted in CANVAS	NO IN PERSON CLASS NO IN PERSON CLASS
		-Student Presentations	
15	4/19	-Case Studies/Special Topics -Review for Final Exam	Lab 4 DUE – Specific Case Assignments and Report Writing
16	4/26	FINAL EXAM	FINAL EXAM

** Syllabus may be modified during the semester. If necessary, students will be immediately notified of changes.

Lab Assignment

Students will complete four lab assignments. There will be four required lab sessions immediately following lecture (see schedule for Class lab time). During these lab sessions, each specific assignment will be reviewed and then guided by the instructor. The assignments may require more time outside of class, but every attempt will be made to allow enough time after lecture on lab days. The details of the assignment will also be outlined and accessible through CANVAS. If students fail to attend class lab sessions, they are responsible for completing the assignment on their own.

Course Grade - Final course grade will be determined as follows:

Completion of 4 Lab Assignments (25 points each) = 100 points = 100%

(Grading rubric to follow)

Grading Scale

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Percentage	93-100	90-92.9	87-89.9	83-86.9	80-82.9	77-79.9	73-76.9	70-72.9	67-69.9	63-66.9	60-62.9	<60
Grade points	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	0.67	0.0

Expectations Regarding 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/Links to an external site.>

<http://gradschool.ufl.edu/students/introduction.html>Links to an external site.

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/> Links to an external site..

SUPPORT SERVICES

Accommodations for Students with Disabilities

If you require classroom accommodation because of a disability, it is strongly recommended you register with the Disability Resource Center within the first week of class or as soon as you believe you might be eligible for accommodations. The Disability Resource Center 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> Links to an external site.. On line and in person assistance is available.
- You Matter We Care website: <http://www.umatter.ufl.edu/> Links to an external site.. 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/> Links to an external site..

- 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>Links to an external site.

Important: Do not wait until you reach a crisis to come in and talk with us. We have helped many students 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 Links to an external site.