

COURSE SYLLABUS

Time: Tuesdays & Thursdays (11:00 am - 12:15 pm)

Place: DHDC (Dole) 2092

Instructor: Kostas Kokkinakis, PhD
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Office Hours: Friday 3:00 – 5:00 pm or by appointment

GTA: Shadi Pirhosseinloo
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Office Hours: Tuesday 9:15 – 11:00 am or by appointment

Course prerequisites: SPLH 120 Physics of Speech

Course Description: This course discusses the concepts and principles relevant to normal hearing processing: gross anatomy, psychophysical methods, and basic subjective correlates of the auditory system. ASHA standards met by successful completion: IV-A11, IV-A12, IV-A15, IV-A23, IV-B2

Course objectives: During this course, students will learn about the following:

1. The anatomy and physiology of the peripheral auditory system.
2. The basic psychophysical approaches in evaluating the auditory system.
3. The fundamental aspects of binaural auditory sensation and perception.

Required Textbooks and Materials: *Hamill, T.A. & Price, L.L. (2008). The Hearing Sciences. United Kingdom: Plural publishing.* Few chapters from other books or other reading materials from the web will be posted online.

Optional: *Plack, C.J. (2005). The Sense of Hearing. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.*

Grading Policy: The University Senate Rules and Regulations define grades as the following:

1. The grade of A will be reported for achievement of outstanding quality
2. The grade of B will be reported for achievement of high quality
3. The grade of C will be reported for achievement of acceptable quality
4. The grade of D will be reported for achievement that is minimally passing but at less than acceptable quality

The final grade for the course will be based on the following:

A (94-100%) A- (90-93%) B+ (87-89%) B (84-86%) B- (80-83%) C+ (77-79%) C (74-76%) C- (70-73%) D+ (67-69%) D (64-66%) D- (60-63%) F (<60%)

Assignments:	Two quizzes (In-class)	40%
	Midterm exam	30%
	Final exam (comprehensive)	30%

Studying: Significant learning may start in the classroom but it should continue to grow outside the classroom when students become actively engaged with the material. As stated in the Faculty Senate Rules and Regulations (5.1.1) *“One semester hour means course work normally represented by an hour of class instruction and two hours of study a week for one semester, or an equivalent amount of work. The concept may vary according to the level at which instruction is offered.”*

In-class quizzes: Two quizzes will be administered in class (see schedule for dates). The quizzes can be open-book. However, because the time to complete each quiz will be limited, it will help considerably to have learned the material well through class participation and reading. Students are expected to work independently on quizzes. In calculating final grades, each of the 2 quizzes is worth 20% of your grade. **There will be no make-up quizzes.** If you miss a quiz for any reason, you will receive a 0 for the quiz, and it will be dropped from your final grade. In this case, your final grade will be calculated from the other quizzes and exams that you completed **but you will lose 5% of your final grade for the Quiz you missed. If you miss both quizzes you will lose 40% of your final grade.**

Midterm and final exams: The exams will include (1) multiple-choice (2) numerical questions and (3) true-or-false questions to assess your knowledge of the course content and ability to apply concepts and formulas learned in class. Questions will include material covered in the readings and in class lectures and discussions. For each of these exams, you will be allowed to bring your calculator as well as one sheet of formulas. Each exam is worth 30% of your grade. **There will be no make-up exams.** If you miss the exam for any reason, you will receive a 0 for the exam, and it will be dropped from your final grade. In this case, your final grade will be calculated from the other quizzes and exams that you completed **but you will lose 7% of your final grade for the exam you missed. If you miss both exams you will receive an automatic F.**

Blackboard: Students should check the course site frequently for the announcements as well as the course lectures and materials. In addition, all email from instructors to students will be sent through Blackboard. Please be sure to check the email account associated with your Blackboard account. See the instructor if you have any questions.

Lecture notes: The lecture notes will be posted to Blackboard after class.

Computer support: This course assumes basic computer skills, such as creating and saving files.

Cell phones: All cell phones and other wireless devices **should be turned off** in class.

Recording of lectures or labs: All course materials prepared by the instructor, together with the content of all lectures and review sessions presented by the instructor, are the property of the instructor. Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited. On request, the instructor will usually grant permission for students to record lectures, on the condition that these recordings are only used as a study aid by the individual making the recording. Also, unless explicit permission is obtained from the instructor, recordings of lectures and review sessions may not be modified and must not be transferred or

transmitted to any other person, whether or not that individual is enrolled in the course.

Accommodations: The Academic Achievement and Access Center (AAAC) coordinates academic accommodations and services for all eligible KU students with disabilities. If you have a disability for which you wish to request accommodations and have not contacted the AAAC, please do so as soon as possible. They are located in 22 Strong Hall and can be reached at 785-864-4064 (V/TTY). Information about their services can be found at <http://www.access.ku.edu>. Please contact me privately in regard to your needs in this course.

Attendance: Attendance will be taken **periodically** throughout the semester.

Academic Misconduct: Students are expected to observe all University guidelines pertaining to academic misconduct. As stated in the University Senate Rules and Regulations (2.6.1): "Academic misconduct by a student shall include, but not be limited to, disruption of classes; threatening an instructor or fellow student in an academic setting; giving or receiving of unauthorized aid on examinations or in the preparation of notebooks, themes, reports or other assignments; knowingly misrepresenting the source of any academic work; unauthorized changing of grades; unauthorized use of University approvals or forging of signatures; falsification of research results; plagiarizing of another's work; violation of regulations or ethical codes for treatment of human and animal subjects; or otherwise acting dishonestly in research." Academic misconduct will not be tolerated and will be dealt with in accordance with all University rules and regulations. The complete text of the USRR academic misconduct is available at: <http://policy.ku.edu/governance/USRR#art2sect6>

SPLH 463 Schedule (Spring 2017)				
SECTION	SESSION		TOPIC	NOTES
Introduction	Tuesday	1/17	Course and syllabus overview	
	Thursday	1/19	Basic concepts	
Section (1): Physics of sound & Acoustics	Tuesday	1/24	Basic concepts	
	Thursday	1/26	Intensity and pressure	
	Tuesday	1/31	The decibel (part 1 and 2)	
	Thursday	2/2		
	Tuesday	2/7	Room acoustics (part 1 and 2)	
	Thursday	2/9		
Section (2): Anatomy and Physiology	Tuesday	2/14	No Class	
	Thursday	2/16	No Class	

Section (2): Anatomy and Physiology	Tuesday	2/21	Quiz 1	
	Thursday	2/23	External ear	
	Tuesday	2/28	Middle Ear	
	Thursday	3/2	Inner Ear	
Section (3): Psychoacoustics	Tuesday	3/7	Loudness	
	Thursday	3/9	No class	
	Tuesday	3/14	Quiz 1 Discussion	
	Thursday	3/16	<u>Midterm exam</u>	
	Tuesday	3/21	Spring Break	No class this week
Thursday	3/23			
Section (4): Binaural hearing	Tuesday	3/28	Binaural summation and sound localization	
	Thursday	3/30		
	Tuesday	4/4	Midterm exam discussion and review	
	Thursday	4/6	No class	
	Tuesday	4/11	Masking	
	Thursday	4/13	Quiz 2	
Section (5): Abnormal auditory system	Tuesday	4/18	Hearing loss and hearing aids	
	Thursday	4/20		
	Tuesday	4/25	Cochlear implants	
	Thursday	4/27		
	Tuesday	5/2	Final exam review and Quiz 2 discussion	
	Thursday	5/4		
Final		5/8	Final exam week (Date: May TBD, 2017)	
		5/12		