California State University, San Marcos	FORM E-T			
• AUTHORIZATION TO OFFER TOPICS COURSES FOR ACADEMIC CREDIT THROUGH EXTENDED STUDIES •				
(Note: Extended Studies sections of topic classes for which the appropriate form E-T is not on file in the Programs will be removed from BANNER as periodic audits of course offerings are performed as the periodic audits of course offerings are performed.	Office of Academic rmed.)			
Note: Any proposed topic can only be offered two times before being converted to a non-topics course. Academic Programs will assign the appropriate suffix and edit the topic description provided.				
1. College of: <u>Science & Mathematics</u> 2. Center/Program/Department: <u>Physics</u>				
3. Instructor <u>Allison Scheer-Cohen</u> , Ph.D. (If more than one instructor will be teaching the course, list full name of the "instructor of record.")			
4. Topic Abbreviation and Number: PHYS 490-EX 5. Grading Method Letter				
6. Term <u>Spring</u> 7. Year <u>2012</u> 8. Variable Units* <u>3</u>				
9. Has this topic been offered previously? Yes XX No If yes, indicate term(s)	Year			
10. Topic Title: Speech and Hearing Science				
11. Topic Description: Note: This part can be skipped if answer to part 9 is "yes." (NOTE: Please provide detailed information about the also attach the topic description on a separate sheet if you do not have enough space.	he topic. Please type. You may			
This course provides a foundation in the physics of sound as applied to speech and hearing science with clinical application. Students will learn the fundamental physical processes underlying the production speech and the physical and psychological aspects of sound and its measurement. Normal physical pro underlying speech and hearing will serve as a framework for understanding abnormal functioning. Clir be used to demonstrate the importance of speech science to the clinician.	th an emphasis on the n and perception of presses and principles nical applications will			
12. Does this topic have prerequisites? No				
13. Does this topic have co-requisites? No				
14. Does the topic require consent for enrollment? XX YesNo				
XX_FacultyCredential AnalystDeanProgram/Center/Department - Director/Chair				
15. Is topic crosslisted: Yes XX No If yes, indicate which courseand	d obtain signature in #18.			
16. What resources are needed to offer this topic (including technology)?				
17. Justification for offering this topic.				
This course is being offered to fulfil a prerequisite requirement for the MA in Education, Option in Common Disorders. It is a foundational course in all programs in the field and is a necessary prerequisite to entrance program in Communicative Sciences and Disorders/Speech-Language Pathology. PHYS 356, The Sciences has been required up until now, as it was the closest course to the required curriculum. However, the inten 356 is different and the Physics Department is now developing a course that will specifically address the to Communicative Sciences and Disorders Program. The present topics course is being offered as an interim	unicative Sciences and e into any MA e of Sound and Music, ided focus of PHYS opics needed for the measure, while the			

* Enter units only if this is a variable-units topic course.

new course is under review.

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18. Does this topic impact	any other disciplines? Note:	This number can be skipped	if answer to part 9 is "y	/es."		
<u>XX</u> Yes <u>No</u>	If yes, obtain signature(s).	Any objections should be stat	ed in writing and attach	ed to this form.		
Education Discipline	<u>See attached email from Su</u> Signature	zanne Moineau, CoEHH Date	XX_Support	Oppose		
Dissipline	Signature	Date	Support	Oppose		
10 Lesstion (iftenis not a	found at main communa)	Date				
19. Location (if topic not offered at main campus)						
20. Is this course being off	ered on-line?Yes	_ <u>XX_</u> No				
21. Is this a contract topic?	Yes <u>No</u>					
22. Enrollment Limit						
23. Requested Bldg/Room Please call Extended Stu	dies first to reserve the room.					
				·		
Please note: A separate Form E-1 must be submitted for each section offered. SIGNATURES						
See attached signature form						
1. Program/Center/Department –	Director/Chair	Date				
2 College Deep (or Designee)		Data				
2. Conege Dean (or Designee)		Date				
The academic credentials of the inst curriculum vitae on file in the Progr T or Form E-T in the case of a topic	ructor listed above are known to the am/Center/Department Office). The that has already been offered).	e Program/Center/Department (either e instructor is qualified to deliver the	regular faculty, or adjunct fa topic as described in part 9 (aculty with a or on a previous Form		
3. Dean of Extended Studies (or D	esignee)	Date				
Completed form received in the Office	e of Extended Studies					
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4. Associate Vice President for Aca	ademic Affairs – Academic Prograr	ns Date	,, , , , , , , , , , , , , , , , ,			

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California State University, San Marcos	FORMT					
Page 2	ET					
18. Does this topic impact any other disciplines? Note: This number can be skipped if answer to part 9 is "yes." (If there is any uncertainty as to whether a particular discipline is affected, check "yes" and obtain signature.)						
Yes 🗌 No If yes, obtain signature(s). Any objections should be stated in writing and attached to this form.						
Education Discipline Please ou attached May Support Signature Date	Oppose					
DisciplineSupport	Oppose					
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MECNAG. J. BURING 12/15/11 KIKautonalt	× 12/12/2011					
I. Originator (Please Print) Date Dearl of College (or Designee)						
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2	Date					
2/14/2021						
College Curriculum Comm. Rep. Date						
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CALIFORNIA STATE UNIVERSITY, SAN MARCOS College of Education Health and Human Services

PHYS 490-T Speech and Hearing Science Course location, days and time Semester/Date

Professor: Allison Scheer-Cohen, Ph.D., CCC/SLP Phone: 760-750-E-Mail: Office: TBD Office Hours:TBD

COURSE DESCRIPTION

This course provides a foundation in physics speech and hearing with an emphasis on clinical application. Students will learn the fundamental processes underlying the production and perception of sound waves as it applies to speech. The physical and psychological aspects of sound and its measurement will be covered. Normal physical processes and principles underlying speech and hearing will serve as a framework for understanding abnormal functioning. Clinical applications will be used to demonstrate the importance of speech science to the clinician.

Course Prerequisites Permission from instructor

Course Objectives: The students will be able to understand and apply the following:

1. principles of sound waves;

2. physical quantities used to measure and describe sound;

3. principles of sound production;

4. physical quantities used to measure and describe speech;

5. relationship between acoustics and speech production;

6. theories of auditory perception;

7. how speech production and perception are affected by breakdown in the various systems;

8. instrumentation used in the collection of data in clinical populations; and

9. the aforementioned content in the diagnosis and treatment of individuals who exhibit speech and hearing disorders

Required Texts

Ferrard, C. (2007). Speech Science: An integrated approach to theory and clinical practice (2nd Edition). MA: Allyn & Bacon.

STUDENT LEARNING OUTCOMES

Knowledge and Skills required by the American Speech Language and Hearing Association (ASHA).

1. Standard III-A. The applicant must have prerequisite knowledge of the biological sciences, physical sciences, mathematics and the social/behavioral sciences.

2. Standard III-B. The applicant must demonstrate knowledge of basic human communication and swallowing processes, including their biological, neurological, acoustic, psychological, developmental/lifespan, and linguistic and cultural bases.

3. Standard III-C. The applicant must demonstrate knowledge of the nature of speech, language, hearing, and communication disorders and differences and swallowing disorders, including their etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates.

4. Standard III-D: The applicant must possess knowledge of the principles and methods of prevention, assessment, and intervention for people with communication and swallowing disorders, including consideration of anatomical/physiological, psychological, developmental, and linguistic and cultural correlates of the disorders.

5. Standard IV-G: Skill outcomes. Conduct screenings: Speech/Hearing. Select and administer appropriate evaluation procedures, nonstandardized and standardized tests, and instrumental procedures.

Students with Disabilities Requiring Reasonable Accommodations

Students with disabilities who require reasonable accommodations must be approved for services by providing appropriate and recent documentation to the Office of Disable Student Services (DSS). This office is located in Craven Hall 4300, and can be contacted by phone at (760) 750-4905, or TTY (760) 750-4909. Students authorized by DSS to receive reasonable accommodations should meet with their instructor during office hours or, in order to ensure confidentiality, in a more private setting.

Topics

- 1. Process of sound generation and transmission
- 2. Periodic and aperiodic sound waves
- 3. Characterizing of sound waves in terms of amplitude, frequency, and time
- 4. Magnitude of sound using the decibel notation
- 5. Concepts of impedance and acoustic resonance
- 6. Major uses of basic electroacoustic instrumentation for measurement and analysis of sound
- 7. Classic and adaptive procedures for measurement of psychological response to sound

- 8. Basic psychological responses to acoustic stimulation and acoustic characteristics of speech and the cues important to speech perception
- 9. Production of all manners of speech sounds (e.g. posives, semivowels, fricatives)
- 10. Assimilation & coarticulation/feedback mechanisms
- 11. Review of respiratory, phonatory, velopharyngeal and articulatory systems and overview of neurophysiology of each
- 12. Theories of speech perception and speech production
- 13. Clinical application throughout

Course Requirements

Project: Article Research Paper 2 Exams (100 points each) Total 100 points Total 200 points

Grading Standards

Grading Scale: In percentage of final points

A = 90 -100 points B = 80 - 89 points C = 70 - 79 points D = 60 - 69 points

Submission Schedule: No late work will be accepted. NO EXCEPTIONS! If you have to miss class, you have until the start of that class session to get me an electronic copy of your assignment. That means, by 12pm on the due date, you need to have emailed me a copy of your work, if you will be unable to attend class.

<u>Grading Emphasis</u>: Each written assignment will be graded approximately 80% on content (detail, logic, synthesis of information, depth of analysis, etc.), and 20% on mechanics (grammar, syntax, spelling, format, uniformity of citation, etc.).

All University Writing Requirement

The university writing requirement will be met through a formal paper that must be completed for course credit. Students will also be required to write article summaries in class in response to writing prompts provided by the instructor.

CSUSM Academic Honesty Policy

"Students will be expected to adhere to standards of academic honesty and integrity, as outlined in the Student Academic Honesty Policy. All written work and oral presentation assignments must be original work. All ideas/materials that are borrowed from other sources

must have appropriate references to the original sources. Any quoted material should give credit to the source and be punctuated with quotation marks.

Students are responsible for honest completion of their work including examinations. There will be no tolerance for infractions. If you believe there has been an infraction by someone in the class, please bring it to the instructor's attention. The instructor reserves the right to discipline any student for academic dishonesty in accordance with the general rules and regulations of the university. Disciplinary action may include the lowering of grades and/or the assignment of a failing grade for an exam, assignment, or the class as a whole."

Incidents of Academic Dishonesty will be reported to the Dean of Students. Sanctions at the University level may include suspension or expulsion from the University.

Plagiarism:

As an educator, it is expected that each student will do his/her own work, and contribute equally to group projects and processes. Plagiarism or cheating is unacceptable under any circumstances. If you are in doubt about whether your work is paraphrased or plagiarized see the Plagiarism Prevention for Students website

<u>http://library.csusm.edu/plagiarism/index.html</u>. If there are questions about academic honesty, please consult the University catalog.

Electronic Communication Protocol:

Electronic correspondence is a part of your professional interactions. If you need to contact the instructor, e-mail is often the easiest way to do so. It is my intention to respond to all received e-mails in a timely manner. Please be reminded that e-mail and on-line discussions are a very specific form of communication, with their own nuances and etiquette. For instance, electronic messages sent in all upper case (or lower case) letters, major typos, or slang, often communicate more than the sender originally intended. With that said, please be mindful of all e-mail and on-line discussion messages you send to your colleagues, to faculty members in the School of Education, or to persons within the greater educational community. All electronic messages should be crafted with professionalism and care. Things to consider:

- Would I say in person what this electronic message specifically says?
- How could this message be misconstrued?
- Does this message represent my highest self?
- Am I sending this electronic message to avoid a face-to-face conversation?

In addition, if there is ever a concern with an electronic message sent to you, please talk with the author in person in order to correct any confusion.

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Laurie Schmelzer

From: Sent: To: Cc: Subject: Suzanne Moineau Wednesday, December 14, 2011 2:19 PM Laurie Schmelzer Graham Oberem Re: PHYS Extended Learning topics course

Hi Laurie,

It works fine for me. Thank you, Laurie!

Graham: many thanks. Alison was asking if she was cleared to teach it as I think she will need to prepare over the break. We need to see if we will have enough enrolled, otherwise, we can wait for the new course to be approved through a C-form?

Best, Sue

Suzanne Moineau, Ph.D., CCC/SLP Assistant Professor/Director, Program in Communicative Sciences and Disorders California State University San Marcos 333 S. Twin Oaks Valley Road San Marcos, CA 92096 760.750.8505 <u>smoineau@csusm.edu</u> <u>http://www.csusm.edu/el/degreeprograms/csd/index.html</u>

From: Laurie Schmelzer <<u>lschmelz@csusm.edu</u>> Date: Wed, 14 Dec 2011 14:12:39 -0800 To: IITS Administrator <<u>smoineau@csusm.edu</u>> Subject: PHYS Extended Learning topics course

Hello,

Graham Oberem asked that I send the attached topics form to you for review. If you approve of this course, please email and let me know. We can use that as our documentation in place of a signature, unless you are available. I will be out of the office for the rest of the afternoon at Defensive Driver's Training but will be here in the morning and can run it to your office.

Please let me know how you would like to handle this or if you have any questions.

Thank you, Laurie

Laurie Schmelzer Student Services Professional Dean's Office College of Science & Mathematics P (760)750-7201 | <u>www.csusm.edu/csm</u>