

Add Course Request

Submitted on: 2011-12-05 13:50:17

1. COURSE SUBJECT	CDIS
2. COURSE NUMBER (OR PROPOSED NUMBER)	2156Q
3. COURSE TITLE	Speech and Hearing Science
4. INITIATING DEPARTMENT or UNIT	Communication Disorders
5. NAME OF SUBMITTER	Carl A Coelho
6. PHONE of SUBMITTER	Phone: +1 860 486 2817
7. EMAIL of SUBMITTER	Email: carl.coelho@uconn.edu
8. CONTACT PERSON	Carl Coelho
9. UNIT NUMBER of CONTACT PERSON (U-BOX)	1085
10. PHONE of contact person	Phone: 486-2817
11. EMAIL of of contact person	Email: coelho@uconn.edu
12. Departmental Approval Date	02/03/2011
13. School/College Approval Date	04/05/2011
14. Names and Dates of additional Department and School/College approvals	
15. Proposed Implementation Date	Term: fall, Year: 2011
16. Offered before next printed catalog is distributed?	No
17. General Education Content Area	
18. General Education Skill Code (W/Q). Any non-W section?	Q
19. Terms Offered	Semester: Fall Spring Year: Every_Year
20. Sections	Sections Taught: 2
21. Student Number	Students/Sections: 50-75
22. Clarification:	
23. Number of Credits	3 if VAR Min: Max: credits each term
24. INSTRUCTIONAL PATTERN two or three periods per week	
25. Will this course be taught in a language other than English?	Yes If yes, then name the language:

26. Please list any prerequisites, recommended preparation or suggested preparation: Recommended preparation: Math 1060Q or higher. Prerequisite: open to sophomores or higher.	
27. Is Instructor, Dept. Head or Unit Consent Required ?	No
28. Permissions and Exclusions:	
29. Is this course repeatable for credit ?	No If yes, total credits allowed: Allow multiple enrollments in same term?
30. Grading Basis	Graded
31. If satisfactory/unsatisfactory grading is proposed, please provide rationale :	
32. Will the course or any sections of the course be taught as Honors? AsHonors	
33. Additional Details:	
34. Special Attributes:	
35. REGIONAL CAMPUS AVAILABILITY: To be offered at Storrs campus only.	
36. PROVIDE THE PROPOSED TITLE AND COMPLETE CATALOG COPY: Speech and Hearing Science Either semester. Three credits. Recommended preparation: Math 1060Q or higher. Prerequisite: open to sophomores or higher. Fundamentals of acoustics specifically oriented to voice, speech production, and hearing. Human response to sound and its measurement. Introduction to acoustic instrumentation and software used in communication sciences. Examples of concepts to be covered include frequency, intensity, decibels, filters, pitch, loudness, formants, critical bands, and masking.	
37. RATIONALE FOR ACTION REQUESTED a) This course brings together content from two other courses one of which has been dropped (CDIS 2250) and another dropped (CDIS 1155Q) and substantially changed. b) Course will serve as one of the first students take within the CDIS major. It will provide an introduction to acoustics necessary for understanding voice, speech production and hearing. c) NA d) NA e) none f) NA g) NA h) NA i) No j) NA	
38. SYLLABUS: Online URL: (

39. Course Information: ALL General Education courses, including W and Q courses, MUST answer this question

a) Fundamentals of acoustics specifically oriented to voice, speech production, and hearing. Human response to sound and its measurement. Introduction to acoustic instrumentation and software used in communication sciences. Examples of concepts to be covered include frequency, intensity, decibels, filters, pitch, loudness, formants, critical bands, and masking.
b) Mid-term and final exams (multiple choice format, 1-2 chapters per week from course text, Weekly problem sets related to measurements of speech acoustics.

c) Course Objectives

Upon completion of the course, the student will demonstrate an understanding of the fundamentals of:

- The physical properties of sound
- Speech acoustics
- Psychological acoustics
- Digital signal processing
- Instrumentation and software used in speech and audiology

Week Topic

- 1 Math and physics review; physical properties of sound (e.g., frequency, intensity, transmission, etc.)
- 2 Physical properties of sound, cont'd.
- 3 Decibels; filters
- 4 Digital signal processing
- 5 Acoustic transducers (e.g., headphones, microphones)
- 6 Acoustic instrumentation/software (e.g., oscilloscope, frequency analyzer, sound level meter, sound manipulation software)
- 7 Masking and critical bands
- 8 Pitch and loudness
- 9 Speech acoustics (e.g., source-filter theory, F0, formants)
- 10 Speech acoustics, cont'd.
- 11 Speech/voice analysis instrumentation and software
- 12 Other speech/voice topics
- 13 Discretionary time for class demos, presentations, etc.
- 14 Discretionary time for exams

40. Goals of General Education: All Courses Proposed for a Gen Ed Content Area MUST answer this question

41. Content Area and/or Competency Criteria: ALL General Education courses, including W and Q courses, MUST answer this question.: Specific Criteria

- a. **Arts and Humanities:**
- b. **Social Sciences:**
- c. **Science and Technology:**

- i. **Laboratory:**
- d. **Diversity and Multiculturalism:**
- 43. **International:**
- e. **Q course:**
- f. **W course:**

42. RESOURCES:

Does the department/school/program currently have resources to offer the course as proposed
YES

If NO, please explain why and what resources are required to offer the course.

43. SUPPLEMENTARY INFORMATION:

ADMIN COMMENT:

Senate approved new course 10.15.12 // GEOCQapp_012612AP. newQ_120811AP.

Draft syllabus for CDIS 2XXXQ – Speech and Hearing Science

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<i>Week</i>	<i>Topic</i>
1	Math and physics review; physical properties of sound (e.g., frequency, intensity, transmission, etc.)
2	Physical properties of sound, cont'd.
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