

**LEHMAN COLLEGE
OF THE
CITY UNIVERSITY OF NEW YORK**

DEPARTMENT OF PHYSICS AND ASTRONOMY

CURRICULUM CHANGE

1. **Type of Change:** Change in course hours, credits and note

2. **From:**

Department(s)	Physics and Astronomy
Career	<input checked="" type="checkbox"/> Undergraduate [] Graduate
Academic Level	<input checked="" type="checkbox"/> Regular [] Compensatory [] Developmental [] Remedial
Subject Area	Physics
Course Prefix & Number	PHY 140
Course Title	The Physics of Sound
Description	<p>Harmonic motion, waves, perception and measurement of sound, the physics of musical instruments and human voice, electrical reproduction of sound, acoustics of rooms, and environmental noise.</p> <p>Note 4: Recommended for undergraduate students of Speech, Language, and Hearing Sciences to fulfill the requirements for A.H.S.A. certification. It is also appropriate for students who are interested in the physics of music. Note 2: This course does not fulfill Physics major/minor requirements.</p>
Pre/ Co Requisites	
Credits	4
Hours	5 (3 lecture, 2 lab)
Liberal Arts	<input checked="" type="checkbox"/> Yes [] No

Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World

3. To:

Department(s)	Physics and Astronomy
Career	<input checked="" type="checkbox"/> Undergraduate [] Graduate
Academic Level	<input checked="" type="checkbox"/> Regular [] Compensatory [] Developmental [] Remedial
Subject Area	Physics
Course Prefix & Number	PHY 140
Course Title	The Physics of Sound
Description	<p>Harmonic motion, waves, perception and measurement of sound, the physics of musical instruments and human voice, electrical reproduction of sound, acoustics of rooms, and environmental noise.</p> <p>Note: Recommended for students of Speech, Language, and Hearing Sciences to fulfill the requirements for <u>ASHA</u> certification. It is also appropriate for students who are interested in the physics of music.</p>
Pre/ Co Requisites	

Credits	<u>3.5</u>
Hours	<u>4 (3 lecture, 1 lab)</u>
Liberal Arts	<input checked="" type="checkbox"/> Yes [] No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World

4. **Rationale:**

The main change is a reduction in the weekly hours allocated for lab, from 2 hours per week to 1 hour per week. Reducing the total number of experiments during the semester will accommodate this reduction. The remaining experiments will still allow a detailed experimental exploration of all major topics covered in the course. But reducing the total number of lab hours will make it easier in terms of scheduling for students who are interested in taking this course, by reducing the required lab time.

In addition the new course description correctly reflects the name of the American Speech Language Hearing Association (ASHA). It also reflects the fact that a limited number of 100-level physics courses can be used to satisfy the requirements for a physics degree.

5. **Date of departmental approval:** April 6, 2016