Course Proposal: Modify Course

This proposal will change the following elements of the course.

**Course Title** **Course Description** **Credit Hours**

1. Course prefix and number: **PHY 118L**

2. Effective Term/Year: **FALL 2014**

3. CIP CODE/10 digit program code: **4008090002 No Change**

4. Short Course Title: **Musical Acoustics Lab**

 Modified Short Course Title: **Acoustical Physics Lab**

5. What is the primary reason you are modifying this course?

 **To prepare for a resubmission to the core curriculum committee. The committee**

**thought that the course target audience was not broad enough. We are changing the**

**emphasis to make it of broader appeal.**

6. Enter course description exactly as it now appears in the general/graduate bulletin.

 **One semester hour, two hours lab per week. lecture and laboratory grades are**

**computed into one grade and the same grade is recorded for both lecture and lab.**

**Co-requisite: phy 118. lab fee required.**

 Enter modified course description exactly as it will appear in the general/graduate bulletin?

 **Zero semester hour, two hours lab per week. Co-requisite: phy 118. lab fee**

**required.**

7. Current Prerequisites: **No Change**

 Modified Course Prerequisites:

8. College: **College of Science and Mathematics**

9. Department Teaching Course: **Physics and Astronomy**

10a. Instruction Type: **Lab** **No Change**

10b. Credit Hours:

 Current - Maximum: Minimum: Maximum Hours counted toward degree:

 Modified- Maximum: Minimum: Maximum Hours counted toward degree:

11a. Second Instruction Type: **ns**

11b. Second Credit Hours:

 Current - Maximum: **1** Minimum: **1** Maximum Hours counted toward degree: **1**

 Modified- Maximum: **0** Minimum: **0** Maximum Hours counted toward degree: **0**

12. Maximum contact hours each week fall semester: **No Change**

 Lecture: Lab: **2** Other:

13. May this course be taken more than one time each semester: **No**

14. Grade Type: **Not Graded**

15. Describe the place of the modified course within your current curriculum. Will it be

 elective or required? Part of a major or a minor? (Enter NA if no change is being made.)

 **NA**

16. How does the modified course differ from similar courses being offered at Stephen F. Austin?

 (Enter NA if no change is being made.)

 **NA**

17. Syllabus: Course Learning Goals

 List course objectives; describe what students who complete the course will know or be able to do.

 (Enter NA if no change is being made.)

 **Demonstrate basic familiarity with the physics of vibrating systems.**

 **Describe the concepts of auditory perception.**

 **Describe the basics of room acoustics.**

 **Demonstrate skills developed in critical thinking, communication (oral and visual), empirical and quantitative analysis, and teamwork.**

18. Syllabus: Course Outline

 List the topics that the modified course will cover and indicate the approximate proposed amount of time to be devoted to each, either by percent of course time or number of weeks. Please indicate which topics will be required in all sections of the course and which may vary.

 (Enter NA if no change is being made.)

 **Week Experiment**

 **2 Simple Harmonic Motion**

 **3 The Speed of Sound**

 **4 Exam 1**

 **5 Standing Waves on Vibrating Strings**

 **6 The Organ Pipe**

 **7 Exam 2**

 **7-8 Make Your Own Wind Chimes**

 **9-10 The Plumber's Pipe**

 **11 Exam 3**

 **12 Human Hearing Response\*\***

 **13-14 Complex Waveforms\***

 **15 Exam 4**

19. Syllabus: Modified Textbook/Assigned Reading Materials for course.

 **PHY 118L, the Acoustical Physics Laboratory is a corequisite of PHY 118 and a new edition of the lab manual is only available in local bookstores.**

20. Any Other Information

 Dept. Chair \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 College Curriculum Chair \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 College Dean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Grad Dean/Univ Curr Chair \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_