Contact Information
Instructor: Frank Toffoletto
Office: HBH 362
Email: toffo@rice.edu
Office Hours: Open Door or by appointment

Course Objectives and Learning Outcomes
This course is designed to develop a scientific understanding of the relationship between music and sound, by exploring the properties of sound and its relation to musical instruments. We will examine the production of sound by a variety of musical instruments, how the resulting sound is propagated, and how it can be measured and analyzed. Additional topics to be covered include an analysis of musical scales, the physics and physiology of hearing, and the technology of sound reproduction. This course is designed for non-science and non-engineering majors.

The goal of this course is for you to acquire a physical understanding of the science behind sound and music. The use of formulas will be kept to a minimum and will be only used when necessary, but there will be some quantitative aspect to the class which will entail some calculations.

Required Texts and Materials
TBD

Exams and Papers
The course assessment will consist of the following:

<table>
<thead>
<tr>
<th>% of Grade</th>
<th>Comments</th>
</tr>
</thead>
</table>

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2 in class tests</strong></td>
<td>30</td>
<td>One test in early October, another at the end of the semester.</td>
</tr>
<tr>
<td><strong>Homework, reading quizzes, and in class assignments</strong></td>
<td>35</td>
<td></td>
</tr>
<tr>
<td><strong>Project</strong></td>
<td>30</td>
<td>Exact details TBD, will probably entail a group project and an in-class presentation (if there is time).</td>
</tr>
<tr>
<td><strong>Class participation</strong></td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

**Grade Policies**
I will not use a curve to assign a grade, a 60 and higher is a pass, D = 60-69, C=70-79, B=80-89, A=90+. +/- grades will be given to numerical grades that fall at the borders between letter grades. (e.g., 89 =B+, 90=A-). The exact fine tuning will be decided at the end of the semester.

**Late Policy**
Unless there are mitigating circumstances, assignments will be due at specified dates. Any work handed

**Absence Policies**
You should inform me ahead of time when you will be away.

**Rice Honor Code**
In this course, all students will be held to the standards of the Rice Honor Code, a code that you pledged to honor when you matriculated at this institution. If you are unfamiliar with the details of this code and how it is administered, you should consult the Honor System Handbook at [http://honor.rice.edu/honor-system-handbook/](http://honor.rice.edu/honor-system-handbook/). This handbook outlines the University’s expectations for the integrity of your academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process.

**Disability Support Services**
If you have a documented disability or other condition that may affect academic performance you should: 1) make sure this documentation is on file with
Disability Support Services (Allen Center, Room 111 / adarice@rice.edu / x5841) to determine the accommodations you need; and 2) talk with me to discuss your accommodation needs.

**Syllabus Change Policy**

This syllabus is only a guide for the course and is subject to change with advanced notice.