

Abstract Submitted
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Physics of Music: A Course in Transition BRUCE MILLER, Texas Christian University — Colleges with strong music programs generally have a physics course on acoustics for non-science majors. Here I describe a laboratory science course offered at Texas Christian University for about eight years. The course incorporates thirteen laboratory experiences that include an instrument sound level comparison, an individual hearing test, and spectral analysis of each student's instrument. The experiments form the backbone of the course and drive the lectures. I will describe them in some detail, and demonstrate some of the nearly free software that adds enrichment to both the laboratory and lectures. In addition I will explain how guest lecturers from related fields, including audiologists, psychologists and instrument makers, can help provide a more meaningful experience for the students.

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