

003:111 Basic Acoustics
Spring 2001
Due: Tuesday, May 1, 2001

Extra Credit Opportunities

In order to obtain extra credit for Basic Acoustics you may choose to complete one or both of the following writing assignments. Each writing assignment is worth a maximum of 2.5% of the points on one midterm test. Both writing assignments together are worth a maximum of 5% of the points on one midterm test. Please note that these assignments are not required but can be completed in order to obtain extra credit points.

1. Read the City of Iowa City's noise ordinance and then write a short paper about the ordinance. You should summarize the main points of the ordinance and discuss the acoustic principles that are described in the ordinance. Your written document should be approximately **two, double spaced** pages in length.

The noise ordinance can be found online at Iowa City's home page. The address for the home page is www.iowa-city.org. Once at the home page you should click on the button for **city codes** and then the button for **municipal codes**. Once you are on the municipal codes page, you will see a search engine at the bottom of the page. If you search for "noise", you will be taken to the noise ordinance.

2. Visit **three** different classrooms on campus and write a short paper describing the acoustic design of each room. One classroom should be a small classroom designed for 30-40 students, one should be a small auditorium designed for 100-200 students, and the third should be a large auditorium designed for 300+ students. In the paper, you should specifically identify the classroom location on campus. In your discussion of the acoustic design, you should discuss relevant topics covered in supplemental reading 19 (Controlling the Environment) and supplemental reading 21 (Auditorium Design) and class lectures on Auditorium design. You may wish to discuss how a given classroom conforms to the principles discussed in the readings and in class as well as how the design of the room deviates from principles of good acoustic design. The written document should be approximately **two, double spaced** pages in length.