INSTRUCTOR: Erik Sánchez  Telephone: 725-3819  
Office: 422 Science Building 2  
E-mail: esanchez@pdx.edu  
Hours: Monday, 1100-1200 and by appointment

APPROXIMATE GRADING:  
All experiments done adequately: C  
All experiments done and reports handed in: B  
All experiments done well and good reports handed in on-time: A

LAB NOTEBOOK:  
Keep your notebook current, use it. When an experiment gets checked, your notebook will be checked at the same time. Modification of grade is based on your notebook completeness and usefulness.

Tentative schedule:  

<table>
<thead>
<tr>
<th>Week of</th>
<th>Lab:</th>
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| 1/5     | 11: Series resonance  
         | 12: Parallel resonance |
| 1/12    | 12: Parallel resonance  
         | 13: AC Bridge measurements |
| 1/19    | 14: Transistor amplifiers |
| 1/26    | 14: Transistor amplifiers  
         | 15: Operational amplifiers and feedback |
| 2/2     | 16: Differential amplifiers and voltage regulation |
| 2/9     | 17: Positive feedback and oscillators  
         | 18: The radio |
| 2/16    | 18: The radio  
         | *Either:* 19: Analog to digital conversion using dual slope  
         | *or:* 20: Digital to analog conversion |
| 2/23    | *Either:* 19 or 20 |
| 3/2, 3/9| A project of your own choosing (which could be either 19 or 20, the one you did not do) |

HOLIDAYS:  
Jan 19  
Feb 16  
Mar 12  

REPORT ON EXPERIMENT 17 DUE:  
Feb 16  
REPORT ON LAST EXPERIMENT OR PROJECT DUE:  
Mar 12  
LAST DAY TO HAND IN LAB NOTEBOOK AND REPORT:  
Mar 12