ECE 321 - Homework #3

Filter Design. Due Monday, April 18th

Design a filter where the gain is:

- Gain < 1.2 all frequencies
- Gain > 0.9 w < 200
- Gain < 0.2 w > 500



- 1) Give the transfer function for a filter which meets the above design specifications.
- 2) Plot the gain vs. frequency for your filter.
- 3) Design a circuit to implement the filter you designed.

321 Term Project

- 4) Specify the overall requirements for your term project. For ECE 321, the device must have
 - An analog input (can take on many values)
 - Analog output (can take on many values)
 - At least two sections
- 5) Project Breakdown: Specify two sections for your term project. For each section, specify
 - Input
 - Output
 - Relationship (what the circuit does)

Note that the sections should allow you to demonstrate your knowledge of ECE 321 material